PIONEER®
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Service Manual

ORDER NO.
ARP2033

STEREO AMPLIFIER

A-757 MARK II

HEWZ,HE,HB

- **Refer to the service manual ARP1816, A-757/HEZ type.**
- **This manual is applicable to the A-757 mark II /HEWZ, HE and HB types.**

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

The A-757 mark II /HEWZ, HE and HB types are the same as the A-757/HEZ type with the exception of the following sections.

Mark	Symbol & Description	Part No.				Remarks
		A-757/ HEZ type	A-757mark II / HEWZ type	A-757mark II / HE type	A-757mark II / HB type	
	REC OUT assembly	Non supply	Non supply	Non supply	Non supply	
	INPUT SELECTOR assembly	AWZ2347	AWZ2347	AWZ2453	AWZ2453	
	POWER AMP assembly	AWZ2330	AWZ2330	AWZ2447	AWZ2447	
	POWER SUPPLY assembly	AWZ2331	AWZ2331	AWZ2448	AWZ2448	
	SPEAKER TERMINAL assembly	AWZ2332	AWZ2332	AWZ2449	AWZ2449	
	PHONO AMP assembly	AWZ2333	AWZ2333	AWZ2450	AWZ2450	
	HEAD PHONE assembly	Non supply	Non supply	Non supply	Non supply	
⚠	T1 Power transformer	ATS1208	ATS1285	ATS1285	ATS1285	
⚠	T2 Power transformer	ATS1209	ATS1286	ATS1286	ATS1286	
⚠	FU1 Fuse (T4A/250V)	AEK-400	AEK-400	AEK-400	.....	
⚠	FU4 Fuse (T4A/250V)	.....	.....	.....	AEK-514	
	C1,C2 Ceramic capacitor	.....	CKDYB472K50	.....	.....	
	C3	ACH1045	ACH1154	ACH1154	ACH1154	
	R1	RD1/4PM4R7J	RD1/4PM4R7J	.....	.....	
	R2	RD1/4PM100J	RD1/4PM100J	.....	.....	
⚠	AC Power cord	ADG1049	ADG1049	ADG1049	ADG1052	
	Front panel	ANB1294	ANB1377	ANB1377	ANB1377	
	Panel base	AMB1200	AMB1628	AMB1628	AMB1628	
	Rotary knob L	AAB1107	AAB1126	AAB1126	AAB1126	
	Rotary knob M	AAB1108	AAB1127	AAB1127	AAB1127	
	Rotary knob S	AAB1109	AAB1143	AAB1143	AAB1143	
	Packing case	AHD1632	AHD1815	AHD1815	AHD1815	
	Operating instructions (German)	ARC1146	ARC1184	.....	.....	
	Operating instructions (English/German/French/Italian/ Swedish/Dutch/Spanish/) Portuguese)	.....	.....	ARE1148	.....	
	Operating instructions (English)	.....	.....	.....	ARB1229	

POWER SUPPLY assembly (AWZ2448)

The POWER SUPPLY assembly (AWZ2448) is the same as the POWER SUPPLY assembly (AWZ2331) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2331	AWZ2448	
⚠	C615	CQMXA104J100	ACG1005	
	R609,R610	RD1/4PM101J	⚠ RFA/4PS221J	
	R611,R612	RFA1/4PS221J	RD1/4PM101J	
	R626	RD1/4PM221J	⚠ RFA1/4PS221J	
	R630	.....	⚠ RFA1/4PS470J	

SPEAKER TERMINAL assembly (AWZ2449)

The SPEAKER TERMINAL assembly (AWZ2449) is the same as the SPEAKER TERMINAL assembly (AWZ2332) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2332	AWZ2449	
	C905–C908	CQMXA472J100	.....	
	C909,C910	CCDSL101K500	.....	
	SPEAKER TERMINAL	AKE1015	AKE1017	

PHONO AMP assembly (AWZ2450)

The PHONO AMP assembly (AWZ2450) is the same as the PHONO AMP assembly (AWZ2333) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2333	AWZ2450	
	L501,L502 (270μH)	ATH1010	.....	
	L503,L504	LAU2R2M	.....	
	C505,C506	CCCSL221K500	CCCSL271K500	
	C523,C524	CCDSL390J50	.....	
	R505,R506	RD1/8PM272J	.....	

HEAD PHONE assembly

The HEAD PHONE assembly (HE and HB types) is the same as the HEAD PHONE assembly (HEZ and HEWZ types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HEWZ,HEZ types	HE and HB types	
	C951,C952	CKCYB392K50	.....	

REC OUT assembly

The REC OUT assembly (HE and HB types) is the same as the REC OUT assembly (HEZ and HEWZ types) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HEWZ,HEZ types	HE and HB types	
	C803–C814	CKCYB331K50	.....	
	R803–R806,R811,R812	RD1/4PM182J	RD1/4PM222J	
	R807,R808	RD1/8PM182J	RD1/8PM222J	
	R809,R810	RD1/8PM221J	.....	
	R813,R814	RD1/4PM221J	.....	

INPUT SELECTOR assembly (AWZ2453)

The INPUT SELECTOR assembly (AWZ2453) is the same as the INPUT SELECTOR assembly (AWZ2347) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2347	AWZ2453	
	C701–C704,C707–C710	CKCYB331K50	.....	
	C705,C706	CKCYP331K500	.....	

POWER AMP assembly (AWZ2447)

The POWER AMP assembly (AWZ2447) is the same as the POWER AMP assembly (AWZ2330) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2330	AWZ2447	
	C113,C114	CCCSL271J50	CKCYB561K50	
	C139–C142	CCCSL221J50	.....	
	C157,C158	CKCYB331K50	.....	
	C155	CCDSL151J50	.....	
	R245,R246	RDR1/4PM100J	.....	
⚠	R227–R230	ACN1063	ACN–139	

Line Voltage Selection

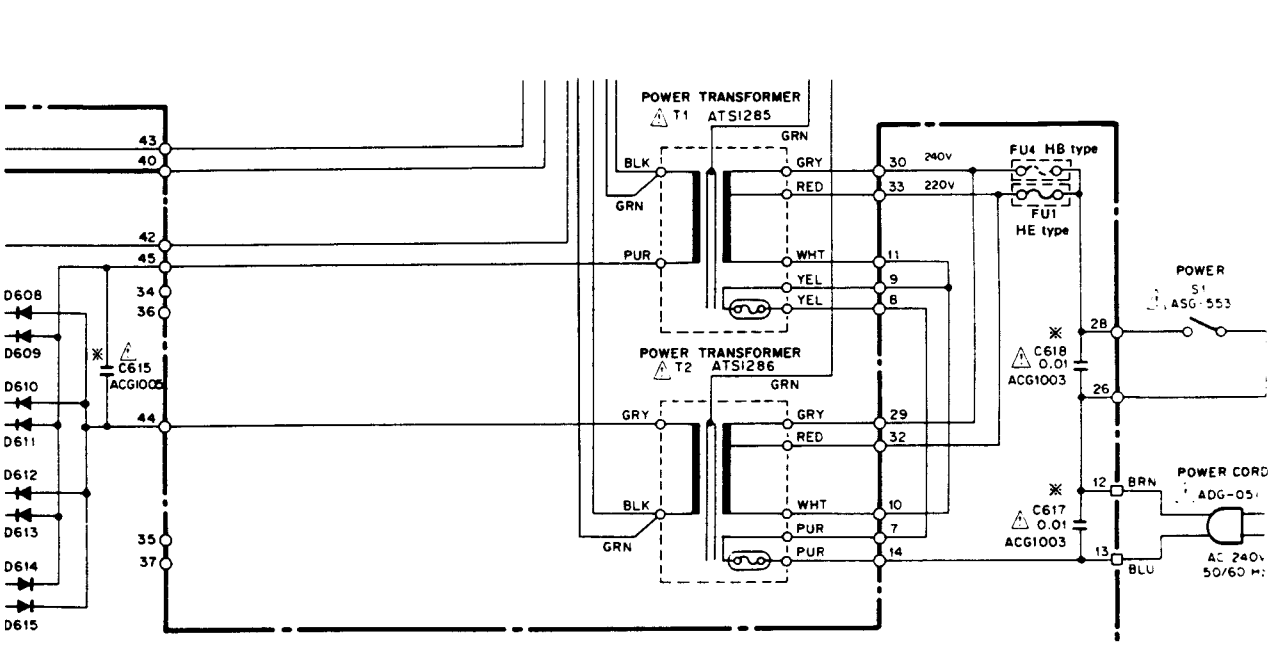
Line voltage can be changed with following steps.

1. Disconnect the AC power cord.
2. Remove the top cover.
3. Change the position of the fuse in the POWER SUPPLY assembly as follows.

AC voltage	PCB position to instal
220V	FU1
240V	FU4

4. Stick the line voltage label on the rear panel.

Part No.	Description
AAX-193	220V label
AAX-192	240V label



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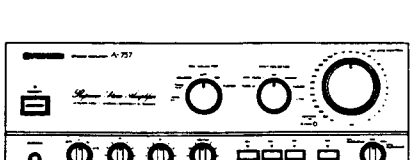

ORDER NO.
ARP1816

STEREO AMPLIFIER

A-757

MODEL A-757 HAS FIVE VERSIONS:

Type	Power requirement	Export destination
HEZ	AC220V,240V (switchable)	West Germany
HE	AC220V,240V (switchable)	Europian continent
HB	AC220V,240V (switchable)	United Kingdom
KUC	AC120V only	U.S.A. and Canada
SD	AC110V,120V–127V,220V,240V (switchable)	U.S.Military

- **This manual is applicable to the A-757/HEZ and HE types.**
- **For the HE type,refer to page 21–32.**
- **For the other types,refer to additional service manual.**

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1. EXPLODED VIEWS AND PARTS LIST

NOTES:

- *Parts without part number cannot be supplied.*
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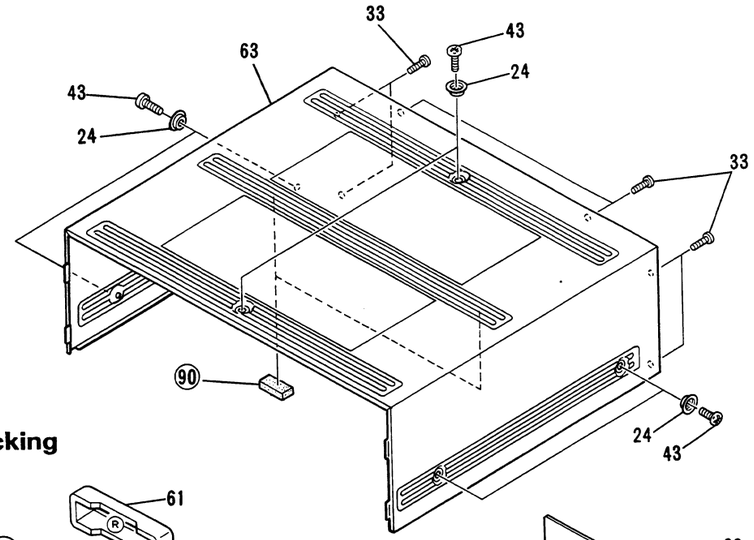
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Mark	No.	Part No.	Description
⚠	1	2SA1265N	TRANSISTOR Q 3
⚠	2	2SA1265N	TRANSISTOR Q 4
⚠	3	2SA1265N	TRANSISTOR Q 5
⚠	4	2SA1265N	TRANSISTOR Q 6
⚠	5	2SC3182N	TRANSISTOR Q 1
⚠	6	2SC3182N	TRANSISTOR Q 2
⚠	7	2SC3182N	TRANSISTOR Q 7
⚠	8	2SC3182N	TRANSISTOR Q 8
	9	RD1/4PM100J	CARBON FILM RESISTOR
	10	RD1/4PM4R7J	CARBON FILM RESISTOR
⚠	11	ACH1045	ELECTROLYTIC CAPACITOR
⚠	12	ATS1087	POWER TRANSFORMER T 1
⚠	13	ATS1088	POWER TRANSFORMER T 2
⚠	14	ASG-553	PUSH SWITCH S 1
	15	ASU1024	SWITCH S 3
	16	ASU1025	SWITCH S 2
	17	ASU1026	SWITCH S 4
	18	AKM1019	JUMPER PLUG
⚠	19	AEK-400	FUSE(T4A)FU 1
⚠	20	ADG1049	AC POWER CORD
	21	ANL1024	LONG SHAFT ASSY
	22	AMR1158	FOOT
	23	AMR1159	FOOT
	24	ABE1009	WASHER
	25	ABF1017	WASHER
	26	ABH1034	SPRING
	27	ABH1056	SPRING
	28	AEC-818	MICA SHEET
	29	AEC-882	STRAIN RELIEF
	30	AEH1005	ADHESIVE TAPE
	31	ABA-298	SCREW
	32	ABA1004	SCREW (STEEL)
	33	ABA1009	SCREW (STEEL)
	34	ABA1011	SCREW (STEEL)
	35	ABA1034	SCREW
	36	ABA1047	SCREW (STEEL)
	37	ABA1048	SCREW (STEEL)
	38	ABA1050	SCREW (STEEL)
	39	ABA1082	SCREW
	40	ABA1088	SCREW
	41	ABN-048	FLANGE NUT M9
	42	ABN-065	NUT
	43	BBZ40P080FZK	SCREW
	44	NK90FCU	NUT
	45	VMZ30P060FCU	SCREW
	46	AMR1178	HOLDER
	47	ANB1294	FRONT PANEL
	48	AMB1200	BASE
	49	AAM1029	NAME PLATE (METAL)
	50	AMR1160	INDICATING LENS
	51	AAB1107	ROTARY KNOB L
	52	AAB1108	ROTARY KNOB M
	53	AAB1109	ROTARY KNOB S
	54	AAD1016	KNOB (PLASTIC)
	55	AAD1536	PUSH KNOB
	56	AAD1560	DIRECT KNOB
	57	AAD1561	POWER KNOB
	58	.....	.....
	59	ARC1146	OPERATING INSTRUCTIONS
	60	AEA1010	SPACER SET
	61	AHA1070	STYROL PROTECTOR
	62	AHD1632	PACKING CASE
	63	ANE1075	METAL BONNET
	64	.....	.....
	65		SPEAKER SWITCH
	66	AWZ2345	TONE AMP
	67		REC OUT
	68	AWZ2347	INPUT SELECTOR
	69		
	70	AWZ2330	POWER AMP
	71	AWZ2331	POWER SUPPLY
	72	AWZ2332	SPEAKER TERM
	73	AWZ2333	PHONO AMP
	74		HEAD PHONE
	75		SHELD
	76		TERMINAL SCREW
	77		EARTH LEAD
	78		TRANS FRAME
	79		RIGHT FRAME
	80		REAR PANEL
	81		PANEL STAY
	82		BOTTOM PLATE
	83		HEAT SINK
	84		HEAT SINK
	85		HEAT SINK HOLDER
	86		VOLUME HOLDER
	87		SHELD CASE(SP)
	88		SHELD CASE B
	89		SHELD PLATE
	90		CUSHION RUBBER C
	91		CUSHION SPACER
	92		CUSHION RUBBER
	93		.....
	94		PCB HOLDER
	95		NYLON RIVET
	96		SPACER
	97		SPACER
	98		BINDER
	99		CLAMPER
	100		.....
	101		
	102		PUSH JOINT
	103		
	104		SHEET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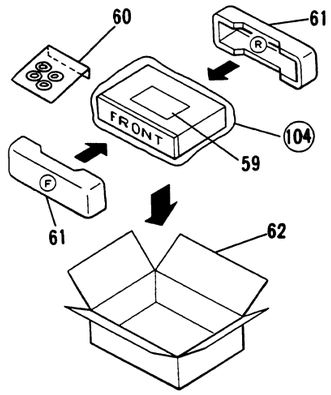
Packing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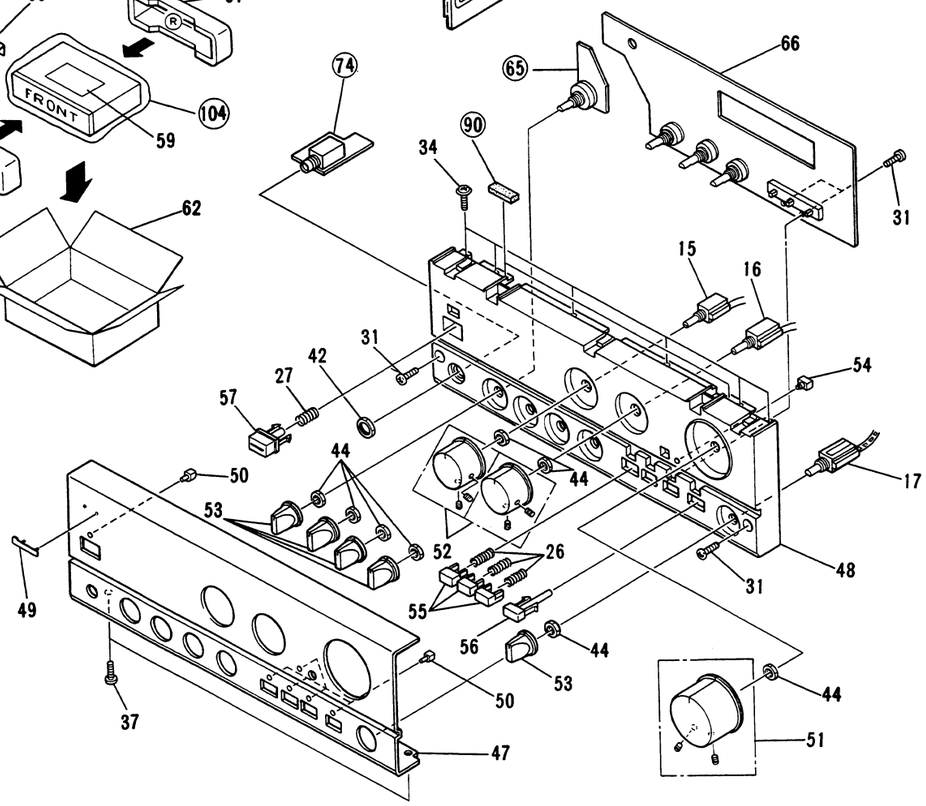
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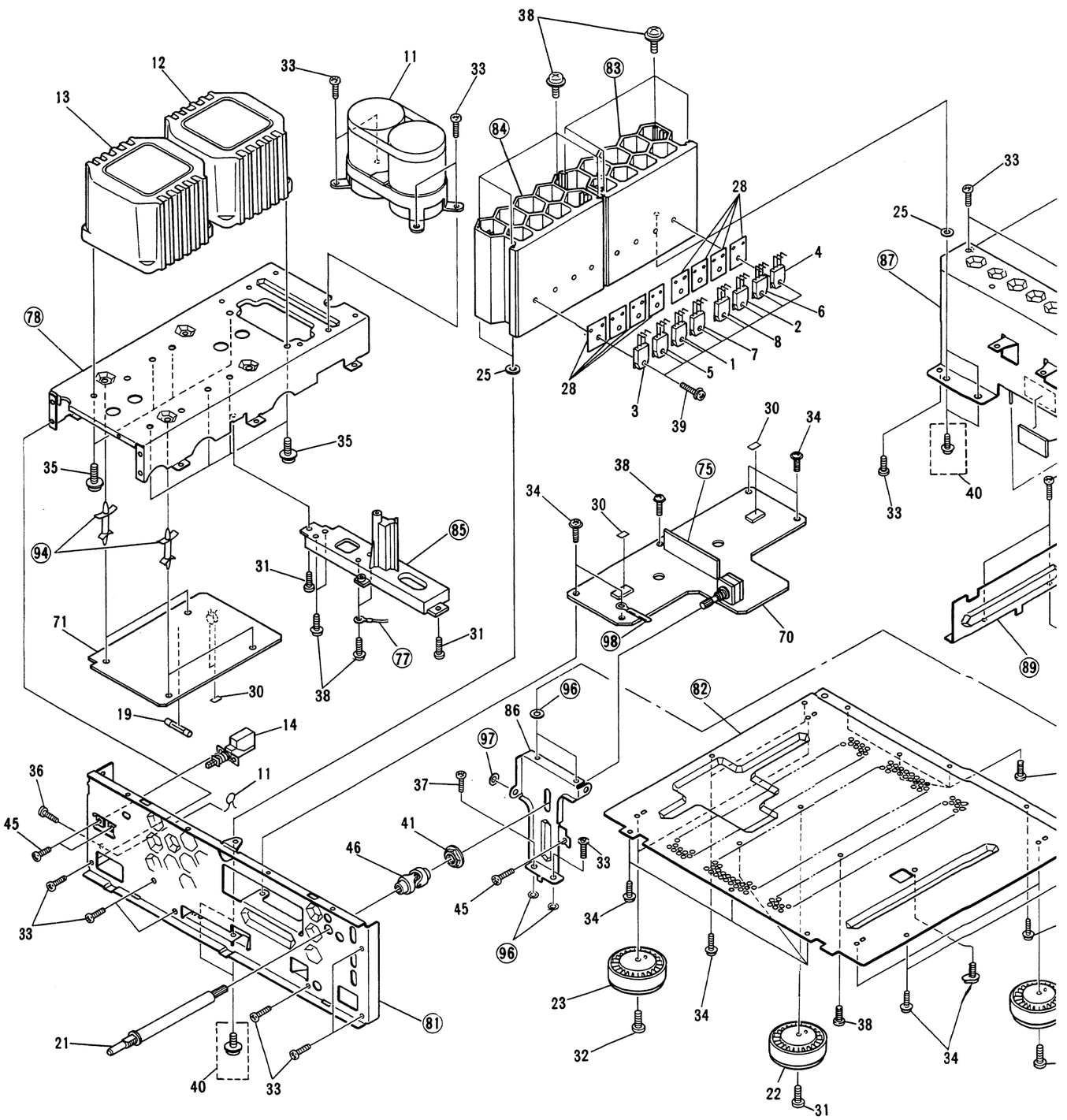
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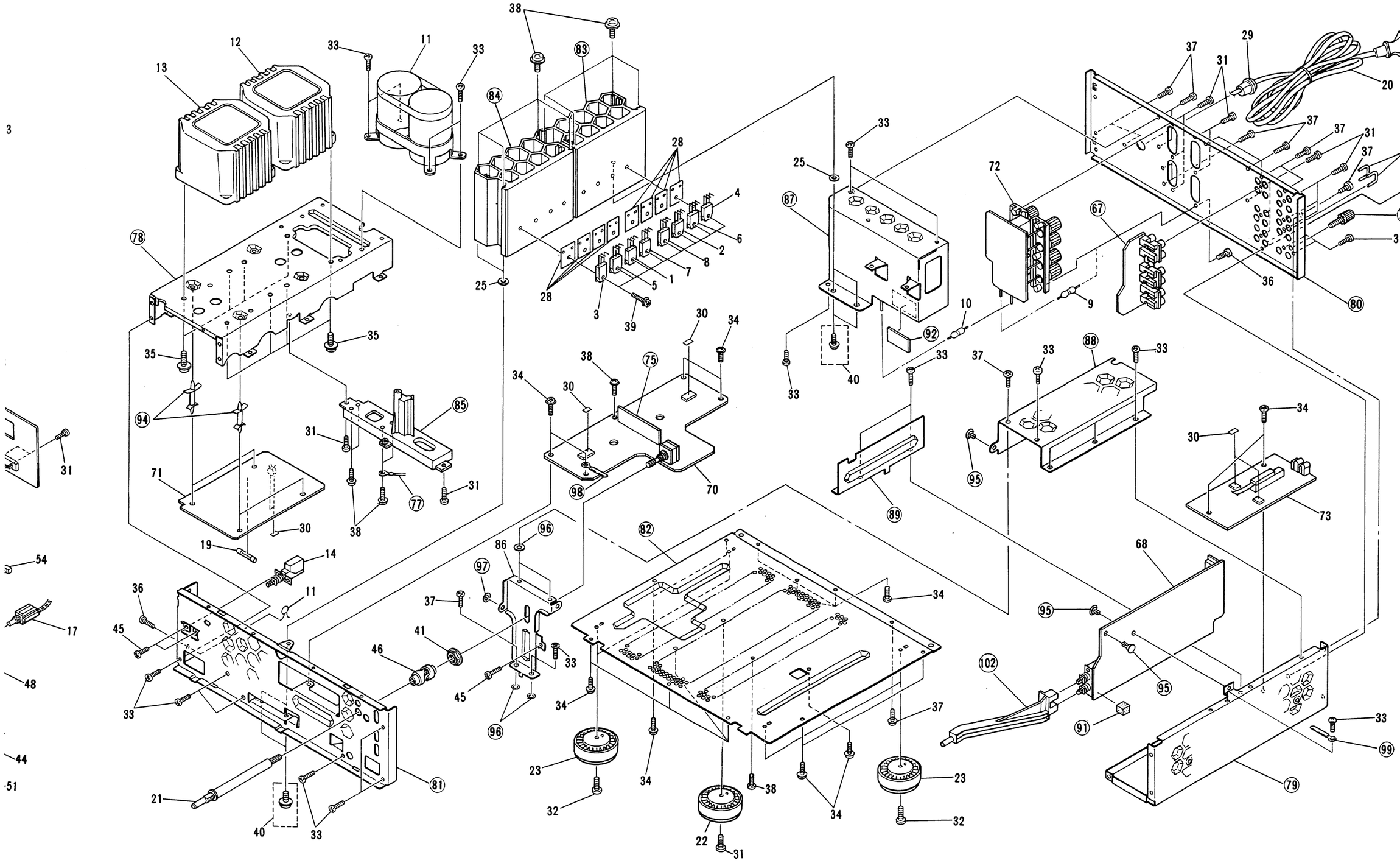
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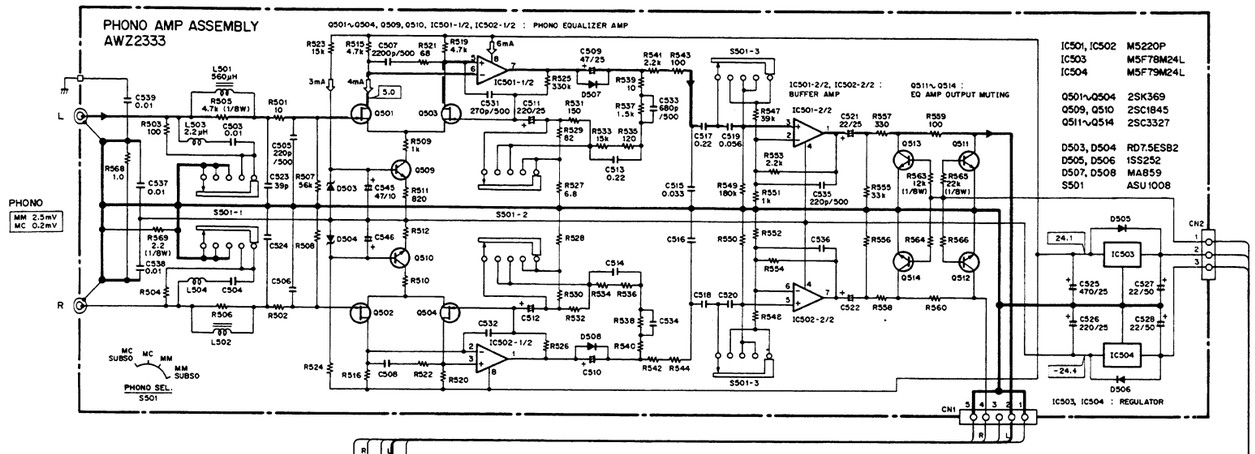
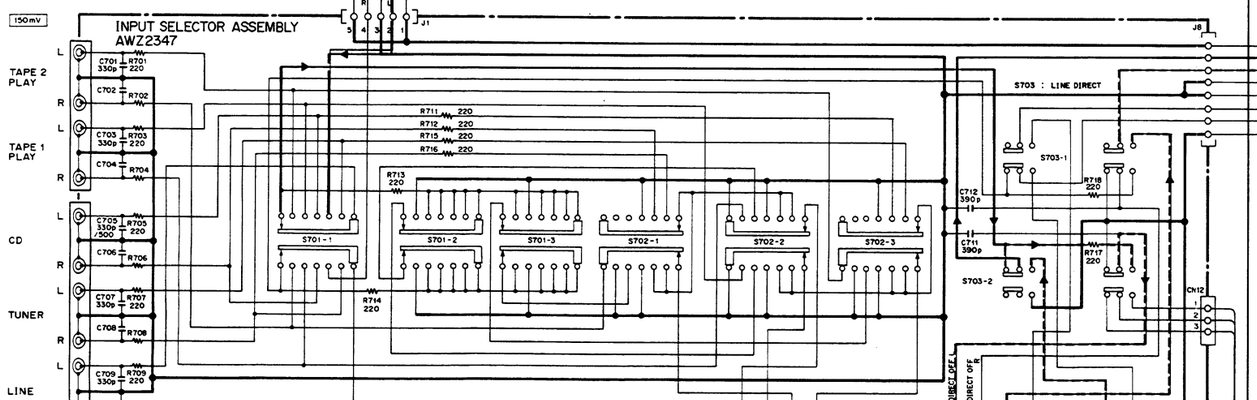
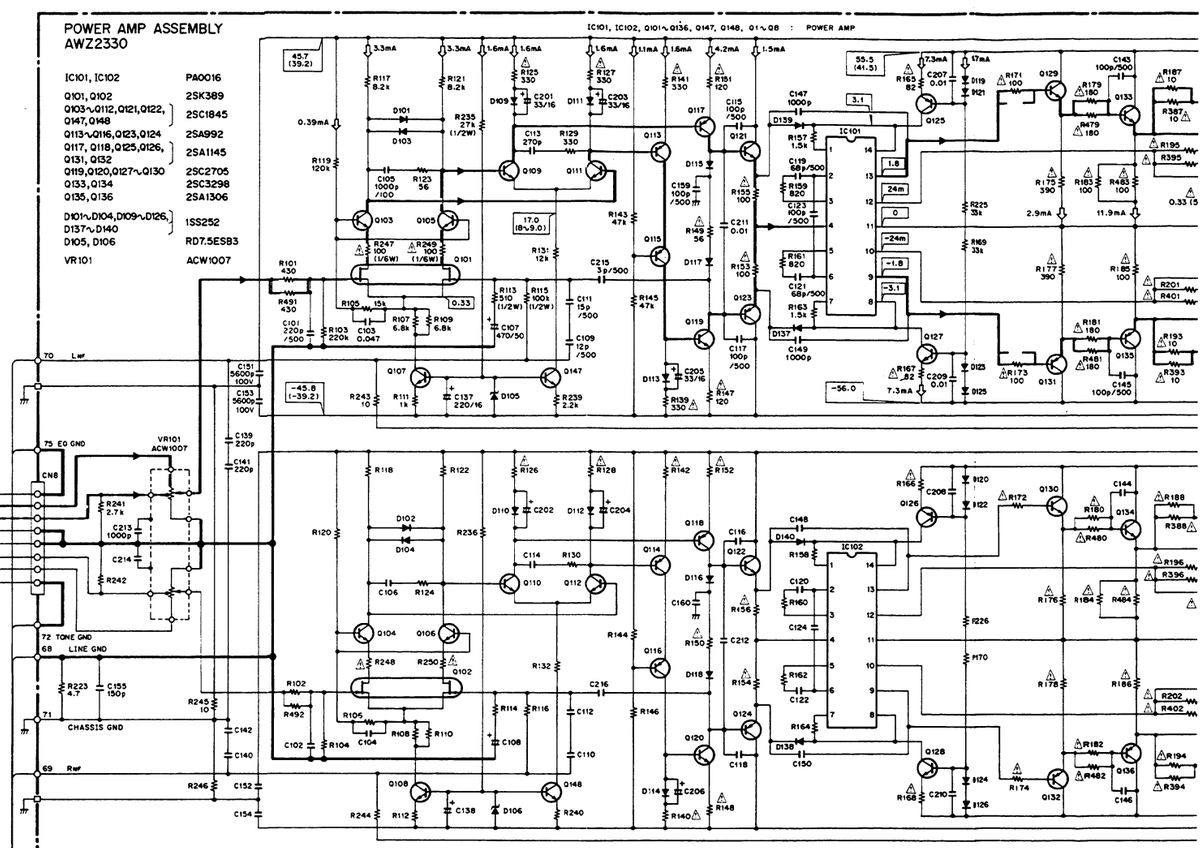
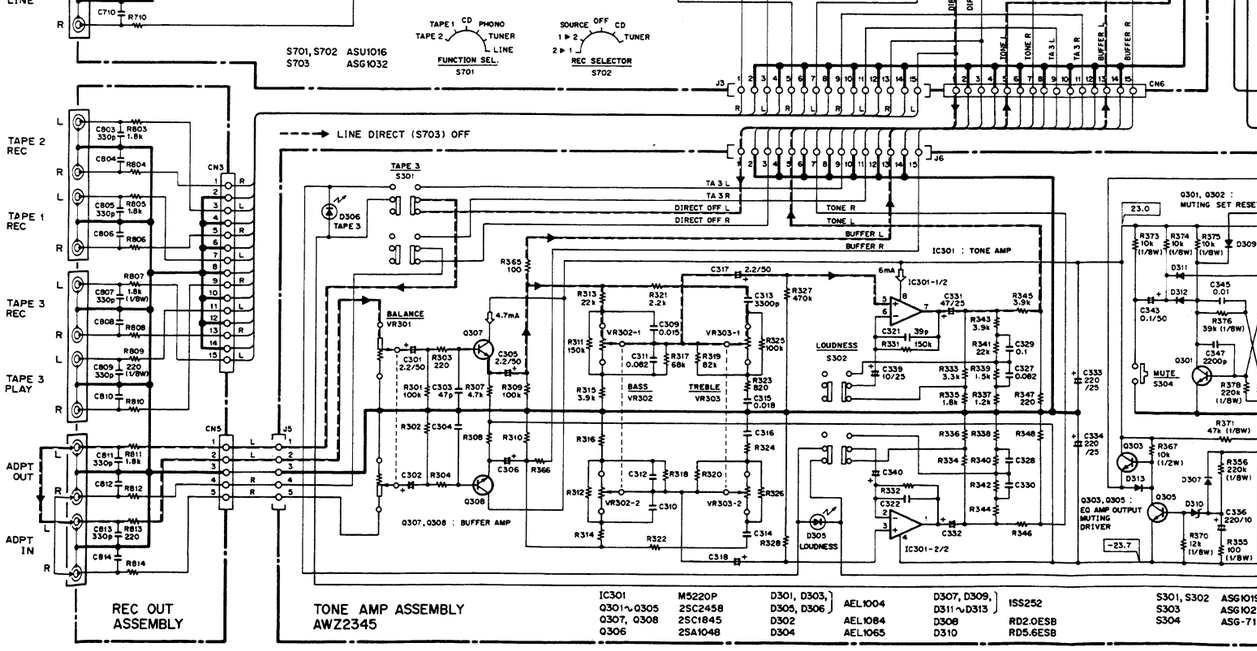
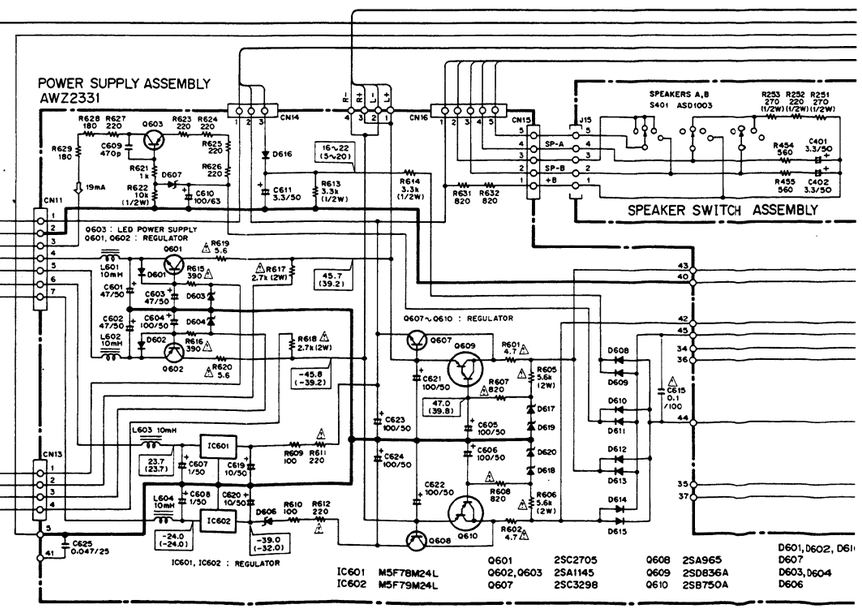
2. SCHEMATIC DIAGRAM

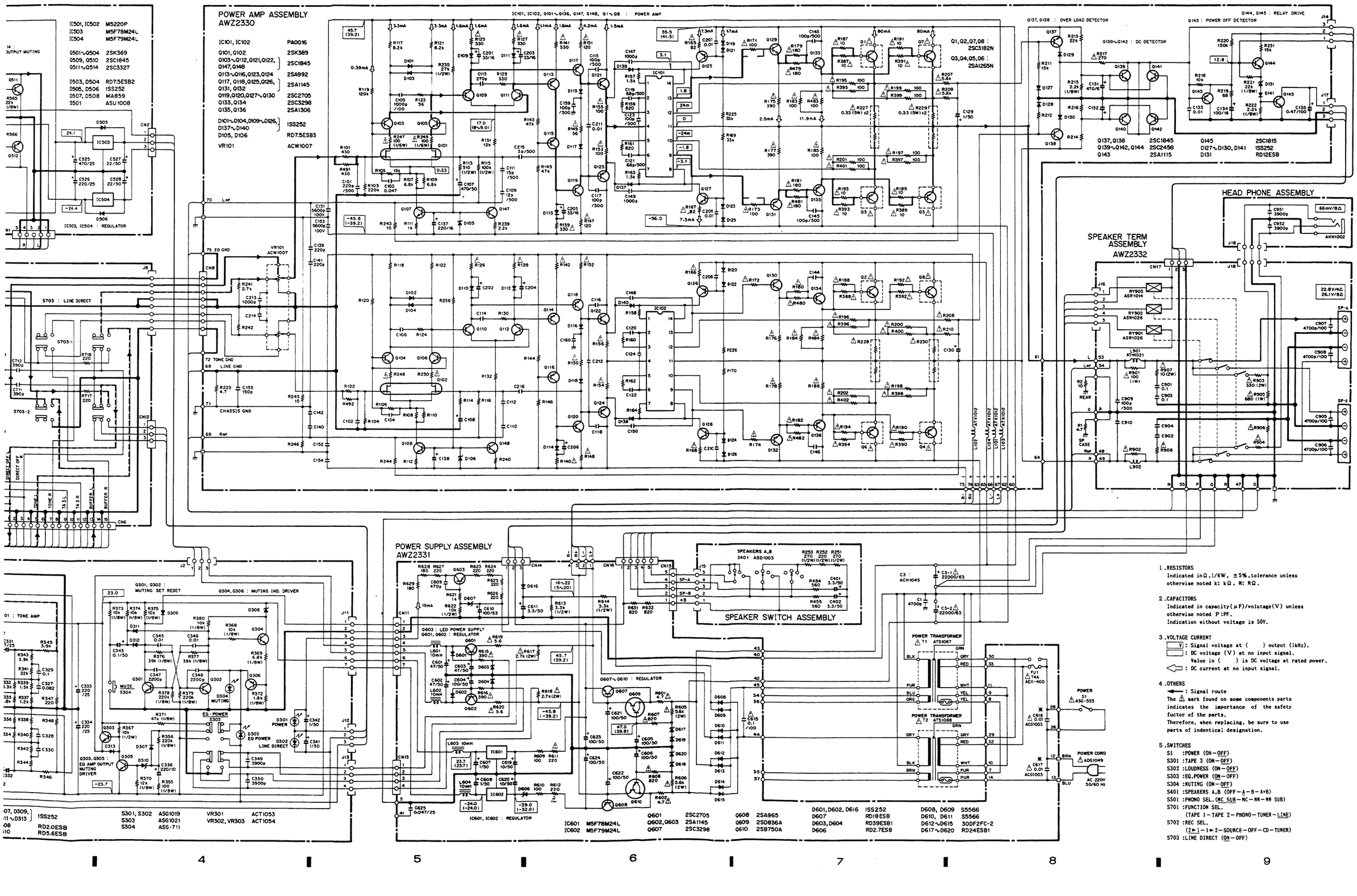











POWER AMP ASSEMBLY
AWZ2330
IC101, IC102 PA0016
Q101, Q102 2SK389
Q103~Q112, Q121, Q122, Q147, Q148 2SC1845
Q113~Q116, Q123, Q124 2SA992
Q117, Q118, Q125, Q126, Q131, Q132 2SA1145
Q119, Q120, Q127~Q130 2SC2705
Q133, Q134 2SC3298
Q135, Q136 2SA1306
D101~D104, D109~D126, D137~D140 1SS252
D105, D106 RD7.5ESB3
VR101 ACW1007
IC101, IC102, Q101~Q136, Q147, Q148, Q1~Q8 : POWER AMP
Q1, Q2, Q7, Q8 : 2SC3182N
Q3, Q4, Q5, Q6 : 2SA1265N
Q137, Q138 : OVER LOAD DETECTOR
Q139~Q142 : DC DETECTOR
Q143 : POWER OFF DETECTOR
Q144, Q145 : RELAY DRIVE
Q137, Q138 2SC1845
Q139~Q142, Q144 2SC2458
Q143 2SA1115
Q145 2SC1815
D127~D130, D141 1SS252
D131 RD12ESB
IC501, IC502 M5220P
IC503 M5F78M24L
IC504 M5F79M24L
Q501~Q504 2SK369
Q509, Q510 2SC1845
Q511~Q514 2SC3327
D503, D504 RD7.5ESB2
D505, D506 1SS252
D507, D508 MA859
S501 ASU1008
IC503, IC504 : REGULATOR
HEAD PHONE ASSEMBLY
SPEAKER TERM ASSEMBLY
AWZ2332
POWER SUPPLY ASSEMBLY
AWZ2331
SPEAKER SWITCH ASSEMBLY
SPEAKERS A,B S401 ASD1003
S703 : LINE DIRECT
S301 : TONE AMP
0301, 0302 : MUTING SET RESET
0304, 0306 : MUTING IND. DRIVER
0303, 0305 : EQ AMP OUTPUT MUTING DRIVER
0603 : LED POWER SUPPLY
0601, 0602 : REGULATOR
0607~0610 : REGULATOR
IC601, IC602 : REGULATOR
POWER TRANSFORMER T1 ATS1087
POWER TRANSFORMER T2 ATS1088
S301, S302 ASG1019
S303 ASG1021
S304 ASG-711
VR301 ACT1053
VR302, VR303 ACT1054
D301, D309, D311~D313 1SS252
D302, D303 RD2.0ESB
D304~D308 RD5.6ESB
IC601 M5F78M24L
IC602 M5F79M24L
Q601, Q602, Q603 2SC2705
Q607 2SC3298
Q604~Q606 2SA1145
Q608 2SA965
Q609 2SD836A
Q610 2SB750A
D601, D602, D616 1SS252
D607 RD18ESB
D603, D604 RD39ESB1
D606 RD2.7ESB
D608, D609 S5566
D610, D611 S5566
D612~D615 30DF2FC-2
D617~D620 RD24ESB1
1. RESISTORS
Indicated in Ω, 1/4W, ±5%, tolerance unless otherwise noted k: kΩ, M: MΩ.
2. CAPACITORS
Indicated in capacity (μF)/volutage(V) unless otherwise noted P:PF.
Indication without voltage is 50V.
3. VOLTAGE CURRENT
V : Signal voltage at ( ) output (1kHz).
: DC voltage (V) at no input signal. Value in ( ) is DC voltage at rated power.
: DC current at no input signal.
4. OTHERS
: Signal route
The ⚠ mark found on some components parts indicates the importance of the safety fuctor of the parts. Therefore, when replacing, be sure to use parts of indentical designation.
5. SWITCHES
S1 :POWER (ON—OFF)
S301 :TAPE 3 (ON—OFF)
S302 :LOUDNESS (ON—OFF)
S303 :EQ.POWER (ON—OFF)
S304 :MUTING (ON—OFF)
S401 :SPEAKERS A,B (OFF—A—B—A+B)
S501 :PHONO SEL. (MC SUB—MC—MM—MM SUB)
S701 :FUNCTION SEL. (TAPE 1—TAPE 2—PHONO—TUNER—LINE)
S702 :REC SEL. (2⇄1—1⇄2—SOURCE—OFF—CD—TUNER)
S703 :LINE DIRECT (ON—OFF)

3. P.C.BOARDS CONNECTION DIAGRAM

NOTE

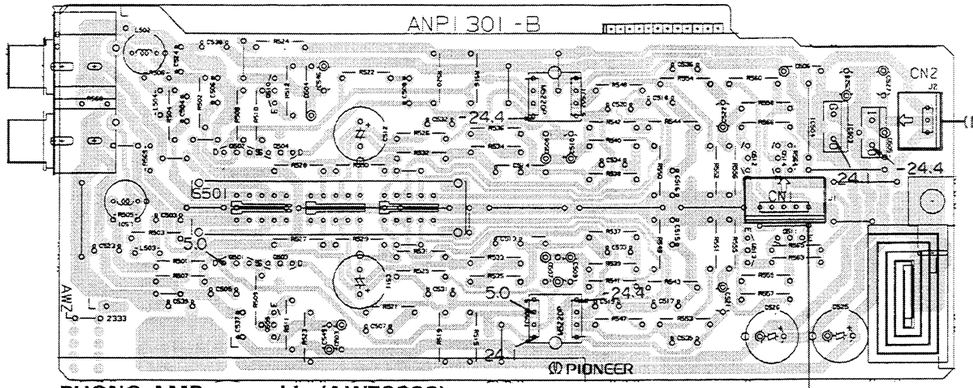
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 E C B	E C B or E C B	Transistor
Q215	Q215 or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	C513	Capacitor (Polarity)
C518	C518	Capacitor (Non-polarity)

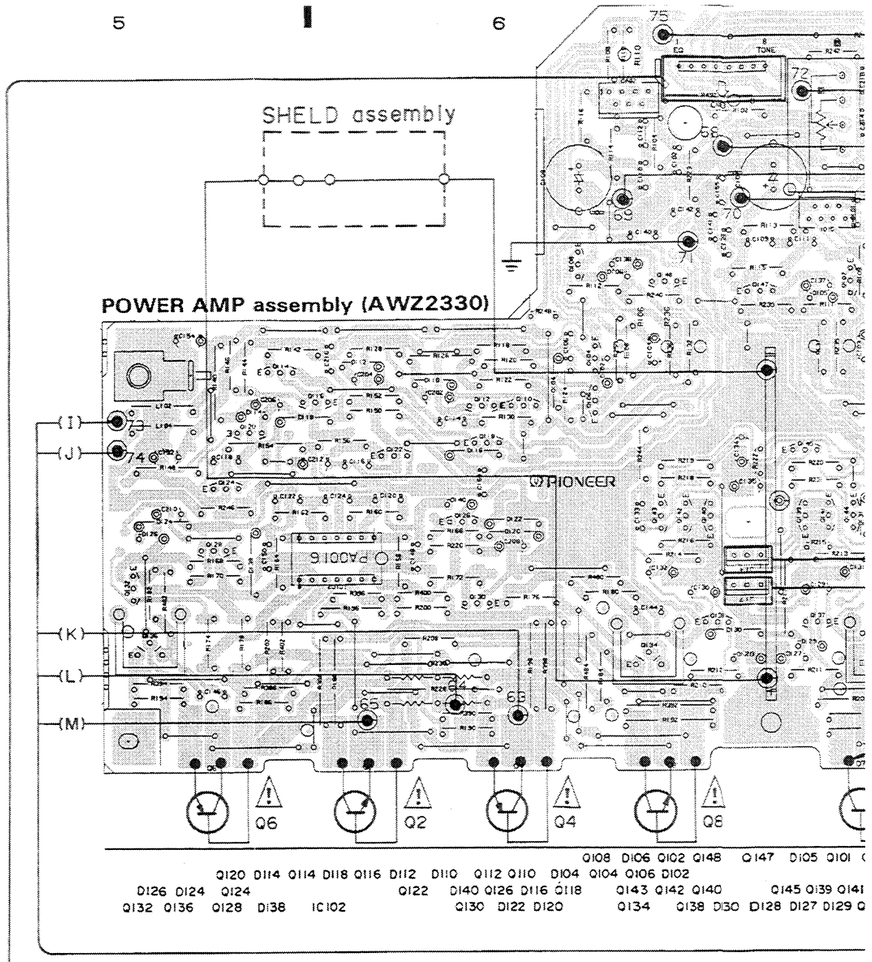
Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

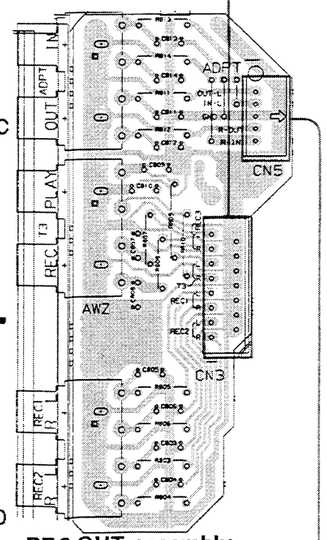
3. The capacitor terminal marked with ⊖(double circles) shows negative termianl.
4. The diode terminal marked with ⊖(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.



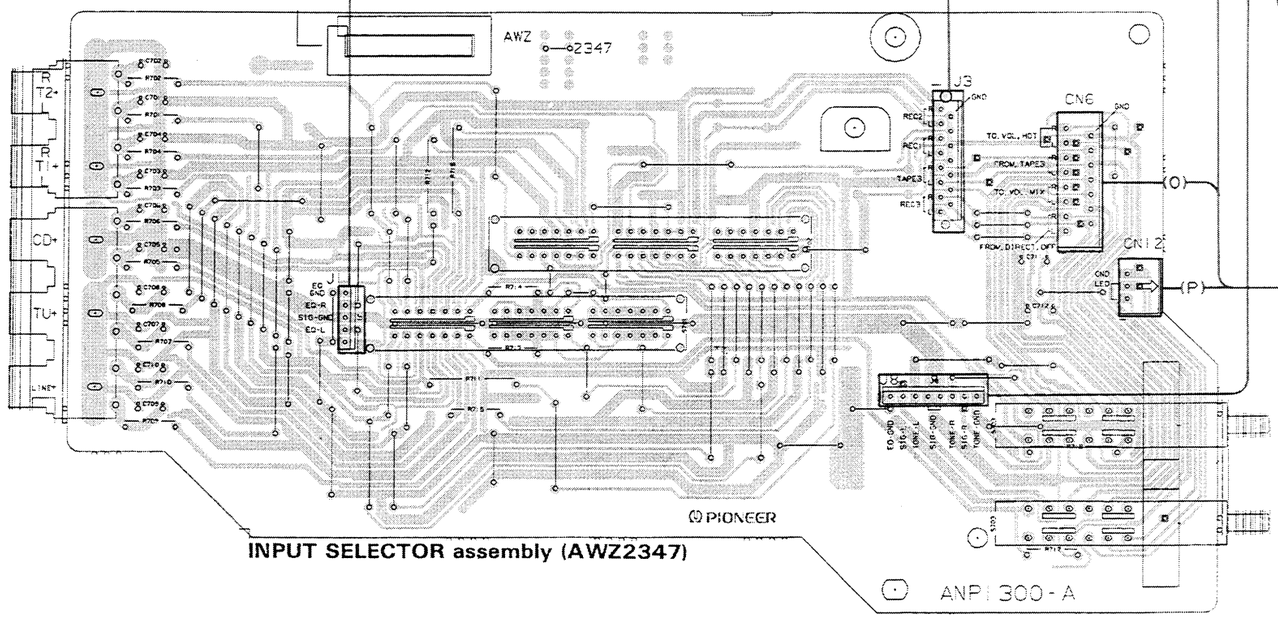
PHONO AMP assembly (AWZ2333)



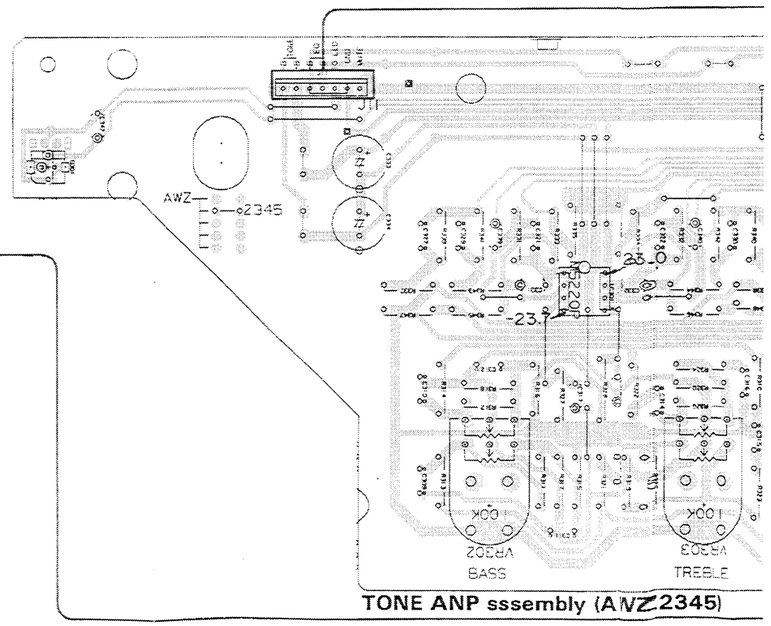
POWER AMP assembly (AWZ2330)



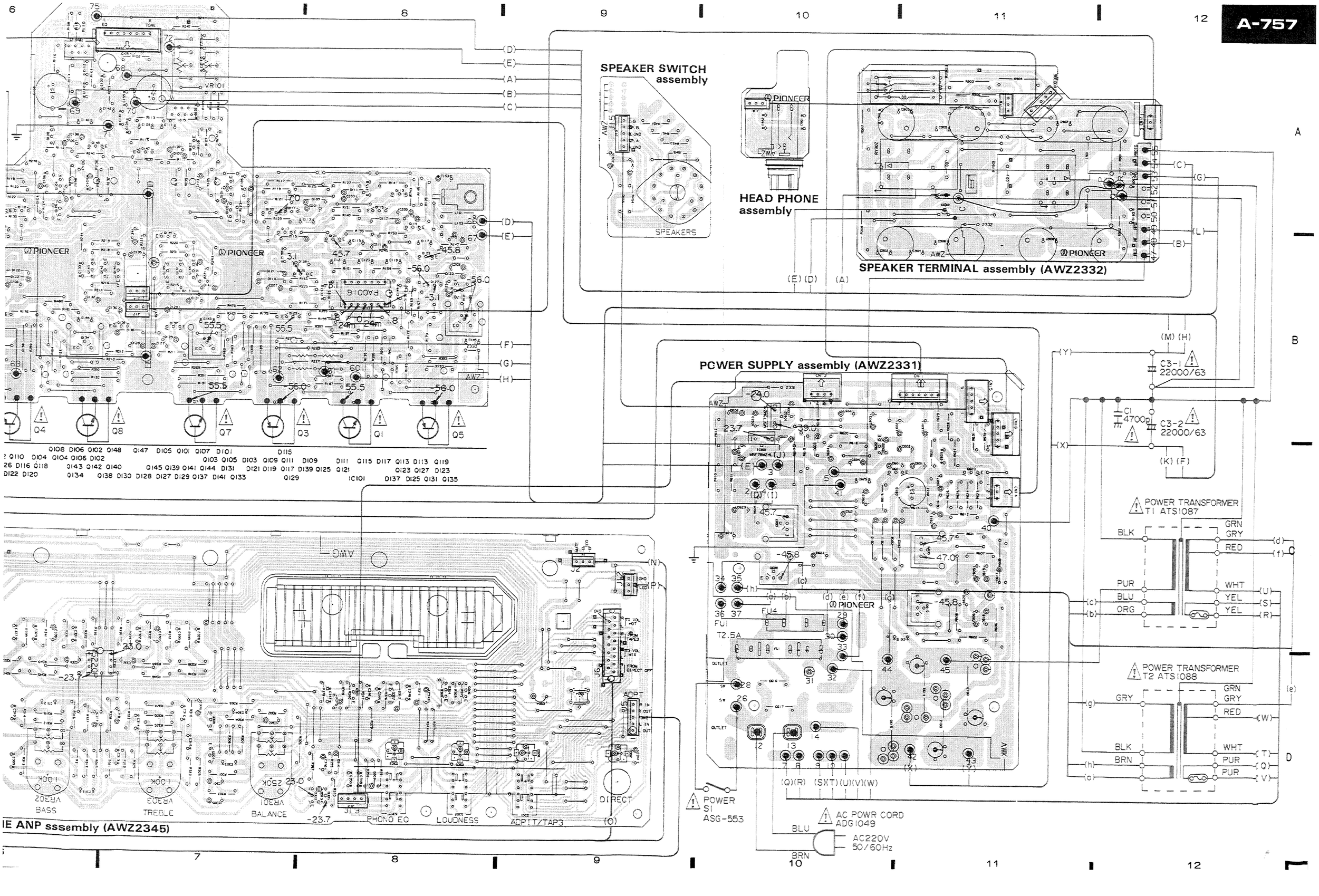
REC OUT assembly



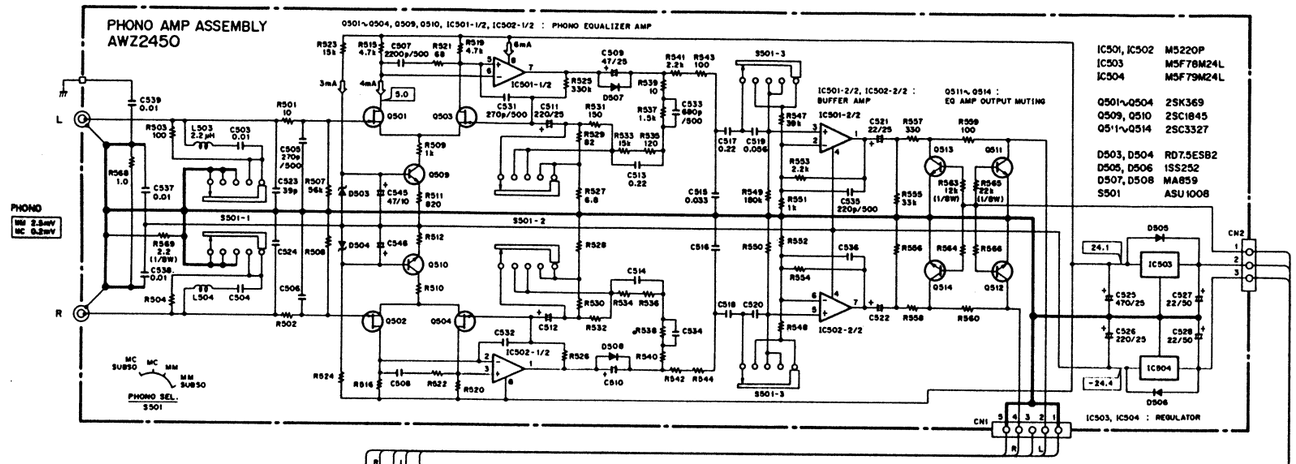
INPUT SELECTOR assembly (AWZ2347)

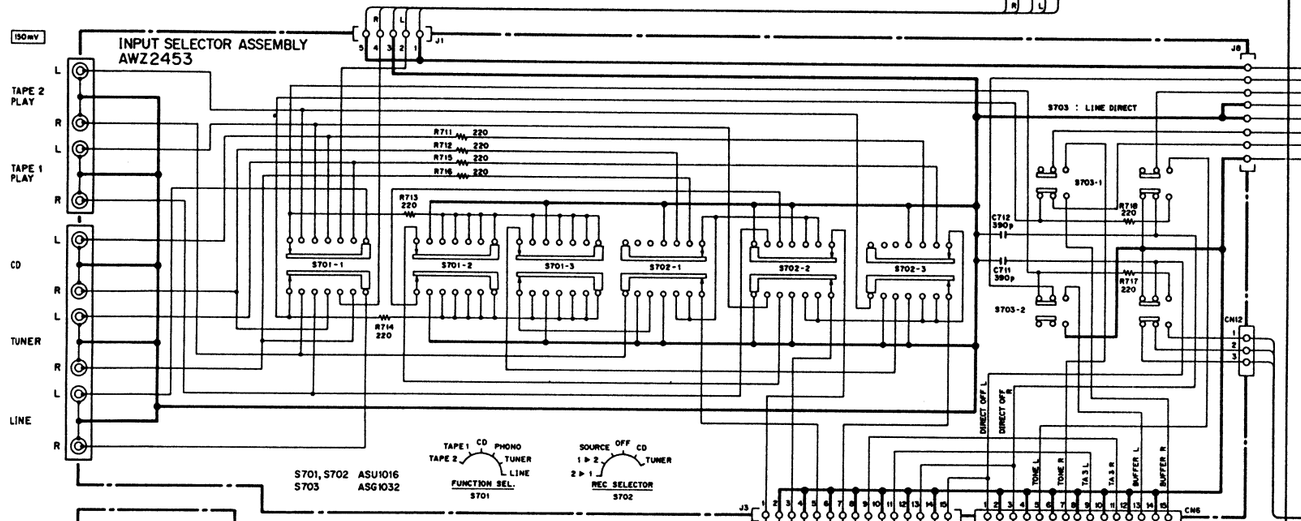


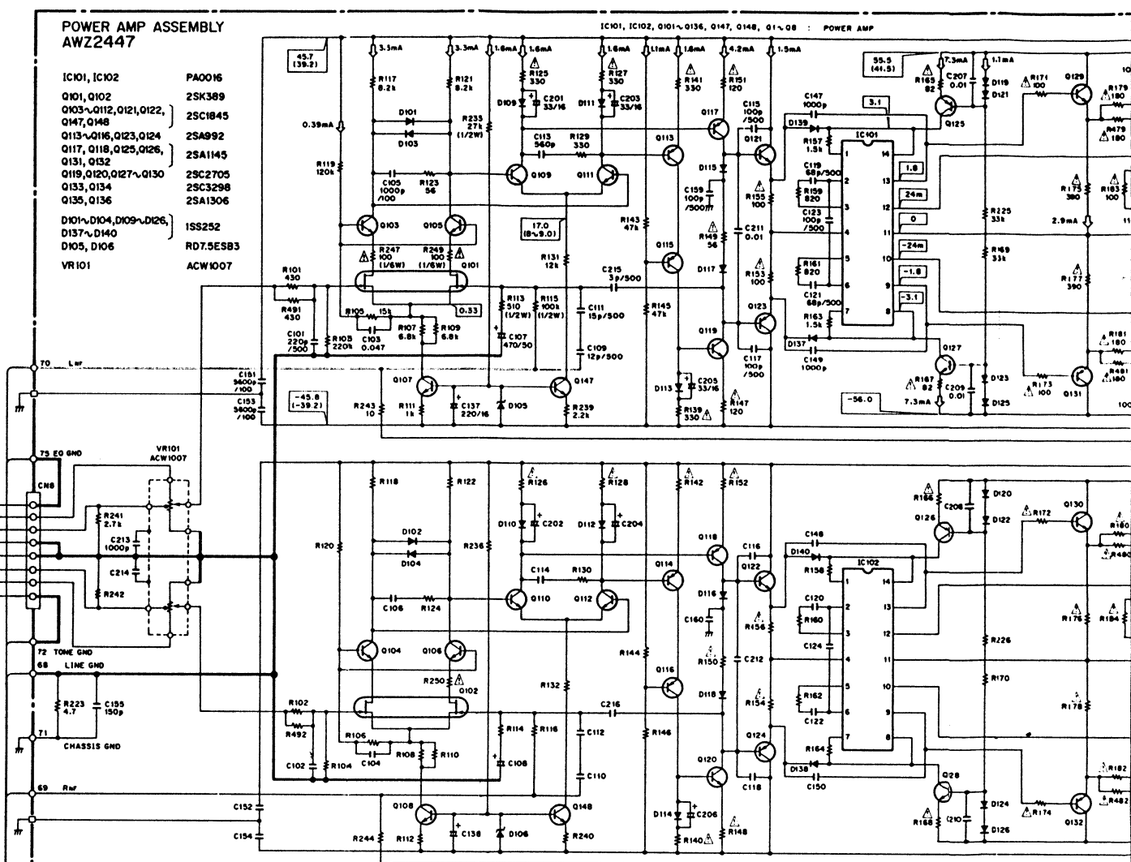
TONE ANP sssembly (AWZ2345)

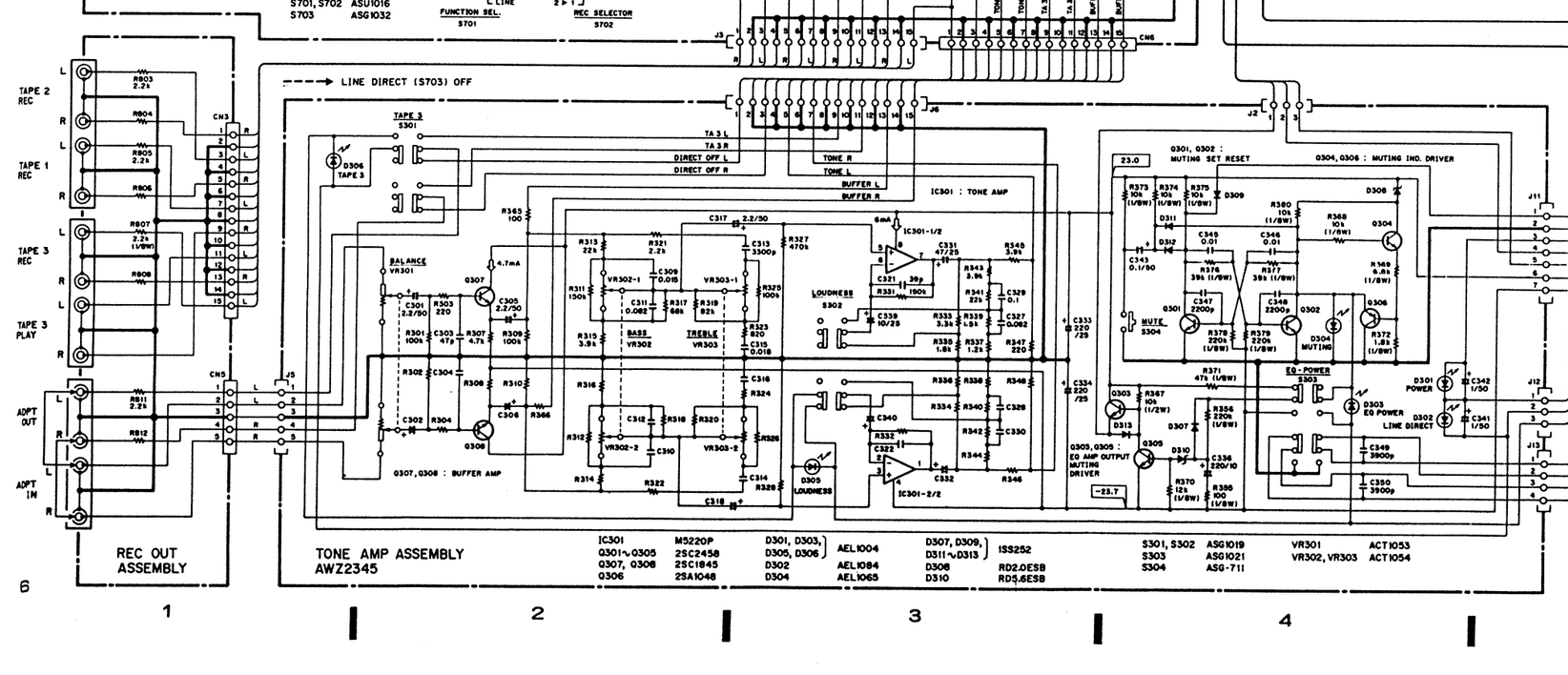

SPEAKER SWITCH assembly
SPEAKERS
HEAD PHONE assembly
SPEAKER TERMINAL assembly (AWZ2332)
PCWER SUPPLY assembly (AWZ2331)
POWER TRANSFORMER T1 ATS1087
POWER TRANSFORMER T2 ATS1088
POWER S1 ASG-553
AC POWR CORD ADG1049
AC220V 50/60Hz
E ANP sssembly (AWZ2345)
BASS
TREBLE
BALANCE
PHONO EQ
LOUDNESS
DIRECT
PIONEER

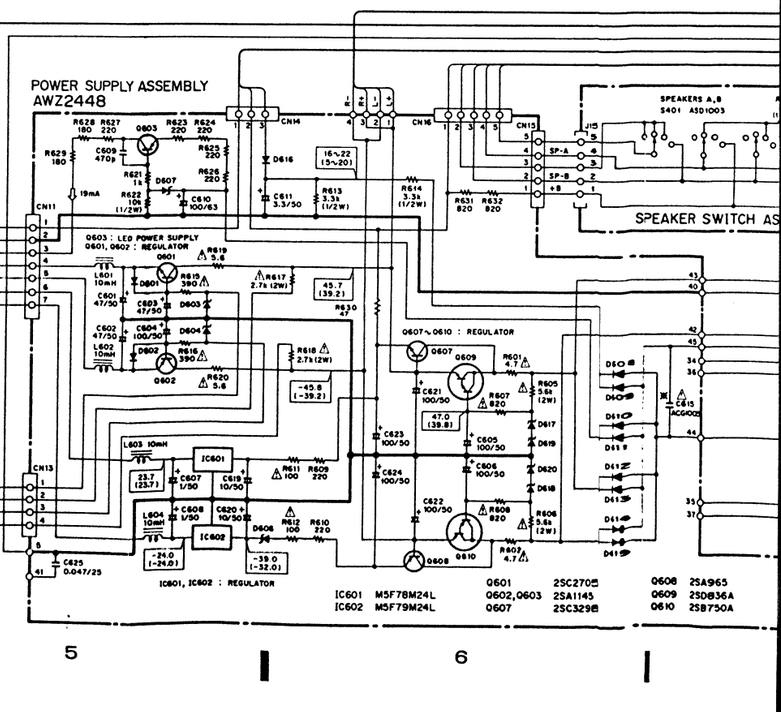
2. SCHEMATIC AND P.C.BOARDS DIAGRAM

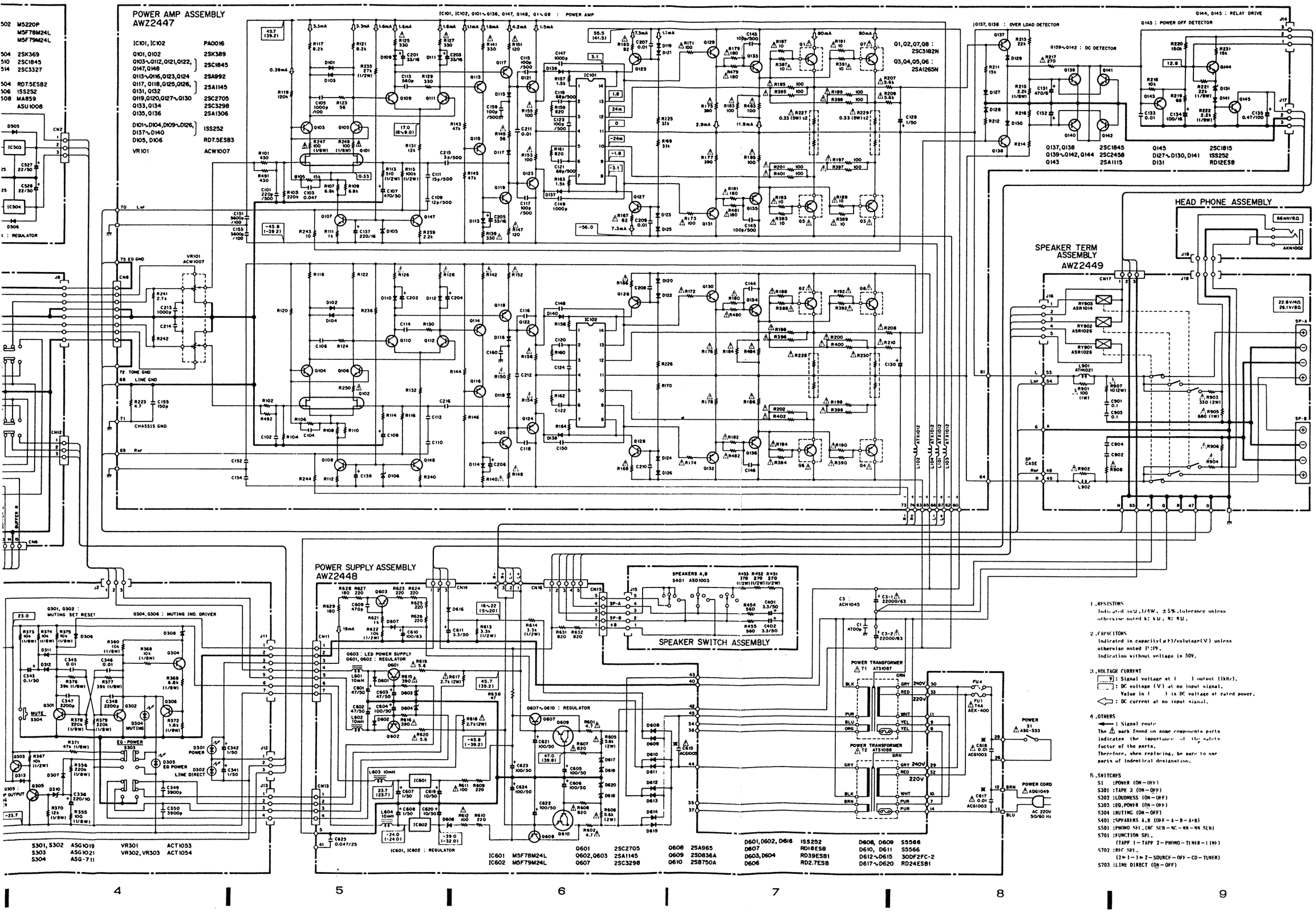


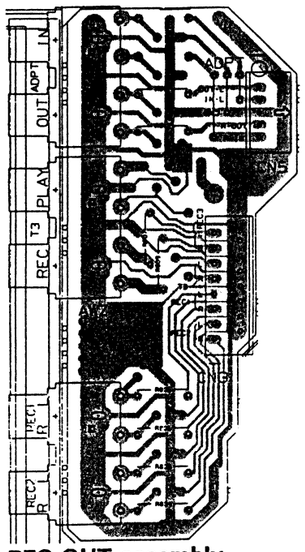




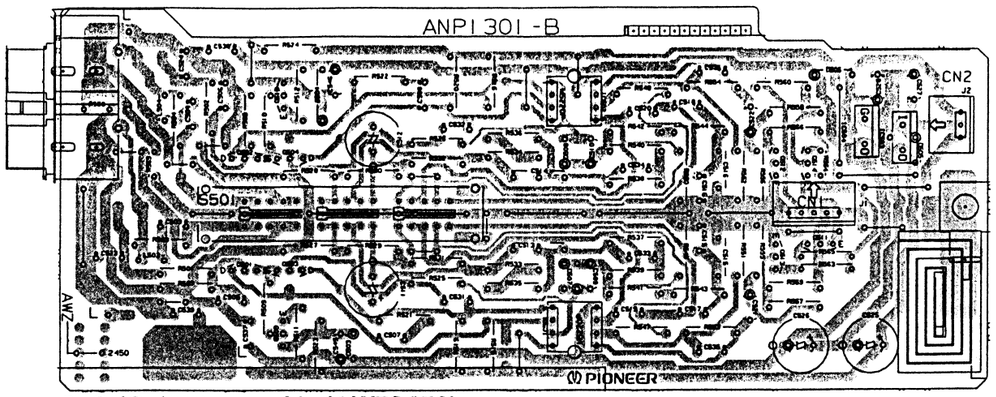




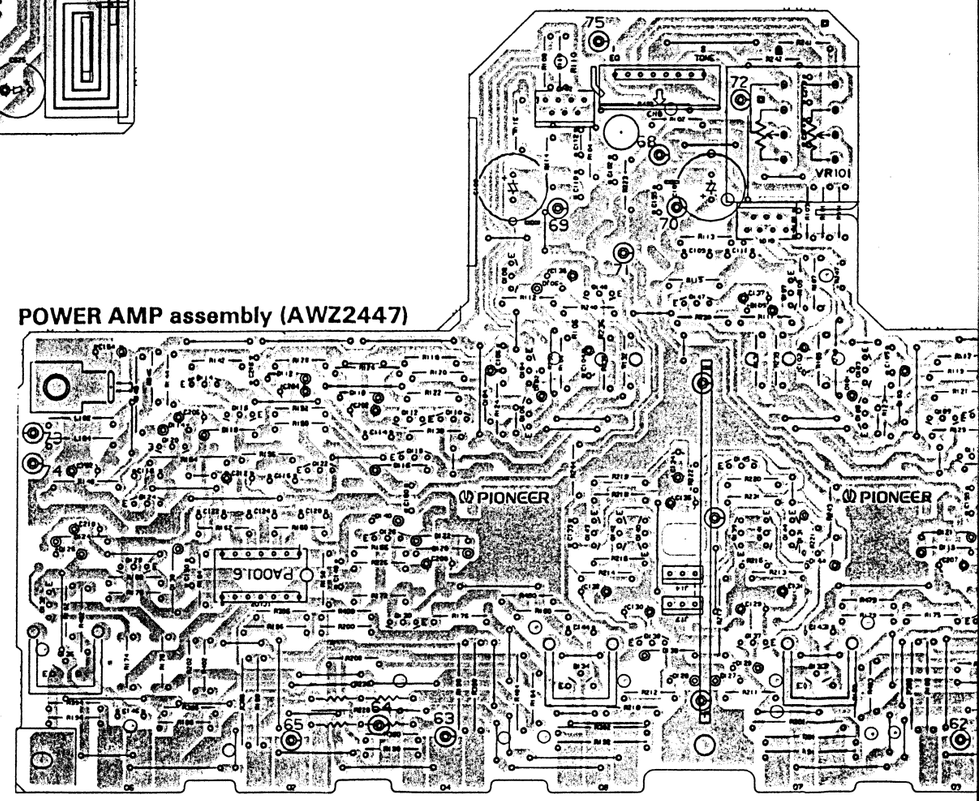

POWER AMP ASSEMBLY
AWZ2447
IC101, IC102 PA0016
Q101, Q102 2SK389
Q103~Q112, Q121, Q122, Q147, Q148 2SC1845
Q113~Q116, Q123, Q124 2SA992
Q117, Q118, Q125, Q126, Q131, Q132 2SA1145
Q119, Q120, Q127~Q130 2SC2705
Q133, Q134 2SC3298
Q135, Q136 2SA1306
D101~D104, D109~D126, D137~D140 1SS252
D105, D106 RD7.5ESB3
VR101 ACW1007
IC101, IC102, Q101~Q136, Q147, Q148, Q1~Q8 : POWER AMP
Q1, Q2, Q7, Q8 : 2SC3182N
Q3, Q4, Q5, Q6 : 2SA1265N
Q137, Q138 : OVER LOAD DETECTOR
Q139~Q142 : DC DETECTOR
Q143 : POWER OFF DETECTOR
Q144, Q145 : RELAY DRIVE
Q137, Q138 Q139~Q142, Q144 Q143 2SC1845 2SC2458 2SA1115
Q145 D127~D130, D141 D131 2SC1815 1SS252 RD12ESB
HEAD PHONE ASSEMBLY
AKN1002
SPEAKER TERM ASSEMBLY
AWZ2449
RY903 ASR1014
RY902 ASR1026
RY901 ASR1026
L901 ATH021
L902
SP-A
SP-B
SP CASE
POWER SUPPLY ASSEMBLY
AWZ2448
SPEAKER SWITCH ASSEMBLY
SPEAKERS A,B S401 ASD1003
C3 ACH1045
POWER TRANSFORMER T1 AT51087
POWER TRANSFORMER T2 AT51088
FU1 T4A AEK-400
FU4
POWER S1 ASG-553
POWER CORD ADG1049
AC 220V 50/60 Hz
0301, 0302 : MUTING SET RESET
0304, 0306 : MUTING IND. DRIVER
0603 : LED POWER SUPPLY
Q601, Q602 : REGULATOR
Q607~Q610 : REGULATOR
IC601, IC602 : REGULATOR
S301, S302 ASG1019
S303 ASG1021
S304 ASG-711
VR301 ACT1053
VR302, VR303 ACT1054
IC601 M5F78M24L
IC602 M5F79M24L
Q601 2SC2705
Q602, Q603 2SA1145
Q607 2SC3298
Q608 2SA965
Q609 2SD836A
Q610 2SB750A
D601, D602, D616 1SS252
D607 RD18ESB
D603, D604 RD39ESB1
D606 RD2.7ESB
D608, D609 S5566
D610, D611 S5566
D612~D615 30DF2FC-2
D617~D620 RD24ESB1
1. RESISTORS
Indicated in Ω, 1/4W, ±5% tolerance unless otherwise noted k: kΩ, M: MΩ.
2. CAPACITORS
Indicated in capacity(μF)/voltage(V) unless otherwise noted P: PF.
Indication without voltage is 50V.
3. VOLTAGE CURRENT
[---V]: Signal voltage at ( ) output (1kHz).
[----]: DC voltage (V) at no input signal.
Value in ( ) is DC voltage at rated power.
⇦: DC current at no input signal.
4. OTHERS
⟶: Signal route
The ⚠ mark found on some components parts indicates the importance of the safety factor of the parts.
Therefore, when replacing, be sure to use parts of indentical designation.
5. SWITCHES
S1 :POWER (ON-OFF)
S301 :TAPE 3 (ON-OFF)
S302 :LOUDNESS (ON-OFF)
S303 :EQ.POWER (ON-OFF)
S304 :MUTING (ON-OFF)
S401 :SPEAKERS A,B (OFF-A-B-A+B)
S501 :PHONO SEL.(MC SUB-MC-MM-MM SUB)
S701 :FUNCTION SEL.
(TAPP 1-TAPP 2-PHONO-TUNER-LINE)
S702 :REC SEL.
(2▶1-1▶2-SOURCE-OFF-CD-TUNER)
S703 :LINE DIRECT (ON-OFF)



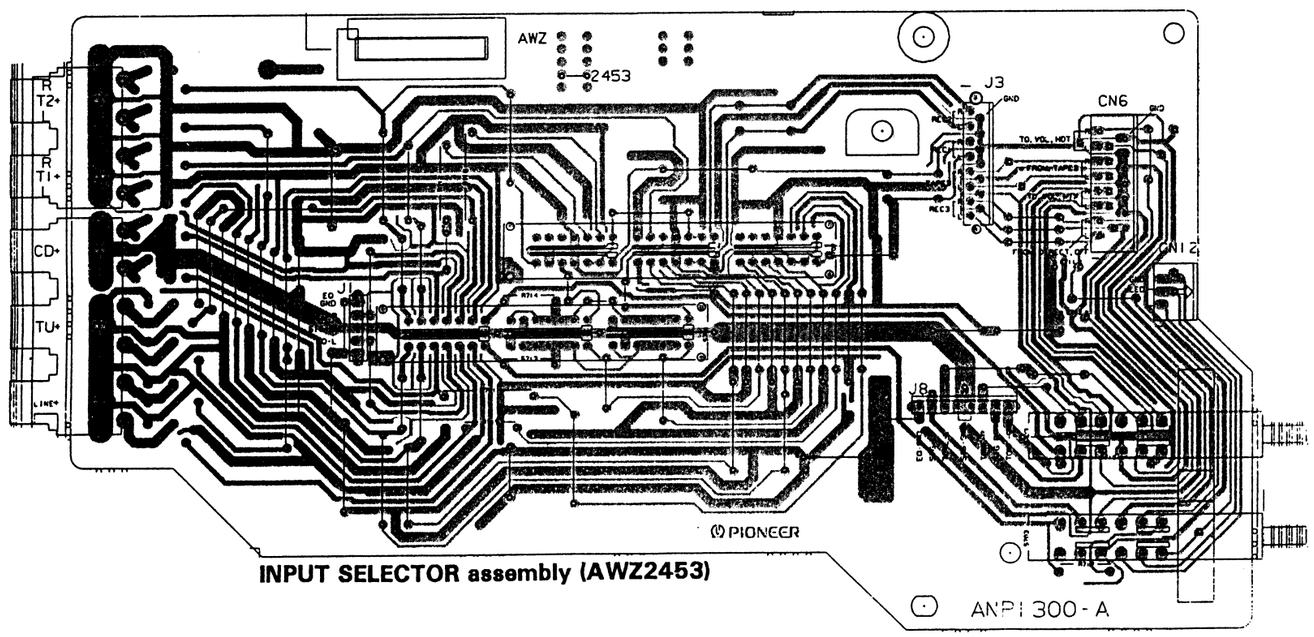
REC OUT assembly



PHONO AMP assembly (AWZ2450)



POWER AMP assembly (AWZ2447)



INPUT SELECTOR assembly (AWZ2453)

Q108 D106 Q102 Q148 Q147 D105 Q101 Q07
Q120 D114 Q114 D118 Q116 D112 D110 Q112 Q110 D104 Q104 D106 D102 Q103 Q105 D103 Q109
D126 D124 Q124 Q122 D140 Q126 D116 Q118 Q143 Q142 Q140 Q145 Q139 Q141 Q144 D131 D121 D119
Q132 Q136 Q128 D138 IC102 Q130 D122 D120 Q134 Q138 D130 D128 D127 D129 Q137 D141 Q133

NOTE

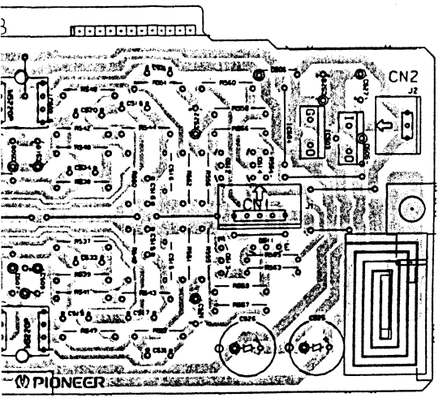
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

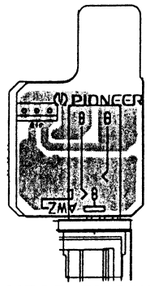
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 (E C B)	or	Transistor
Q215 (E C B)	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	+	Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

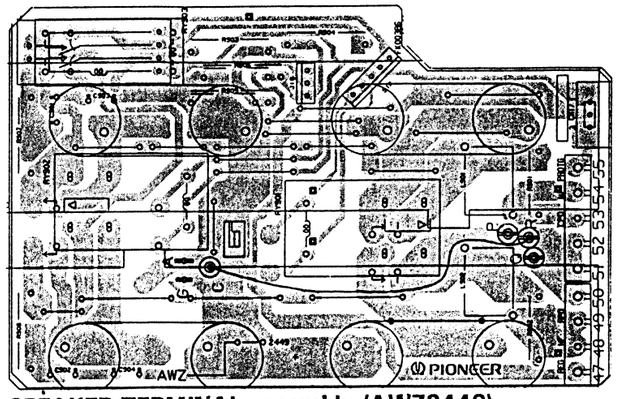
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊖ (double circles) shows negative te
4. The diode terminal marked with ▷| (double circles) shows cathode side.
5. The transistor terminal to which is affixed shows the emitter.



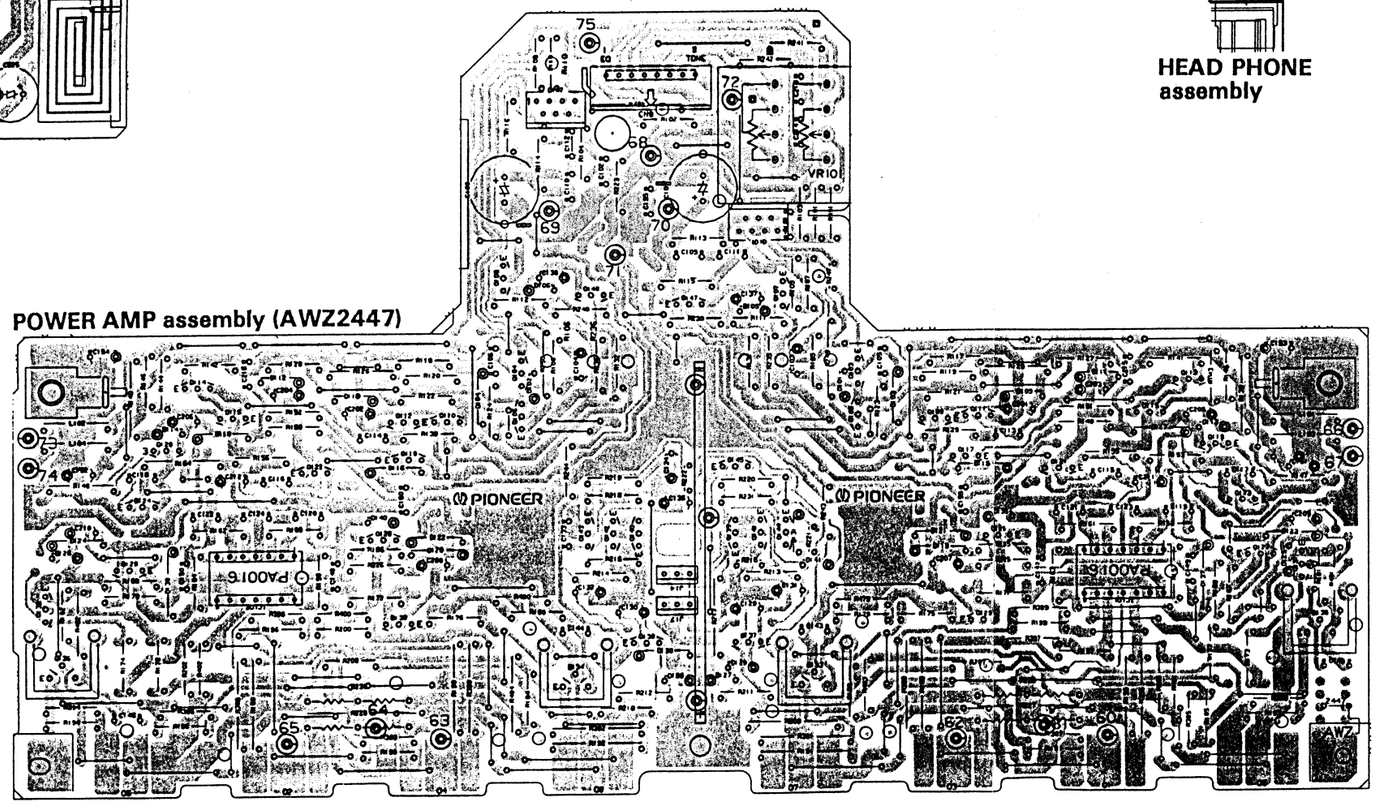


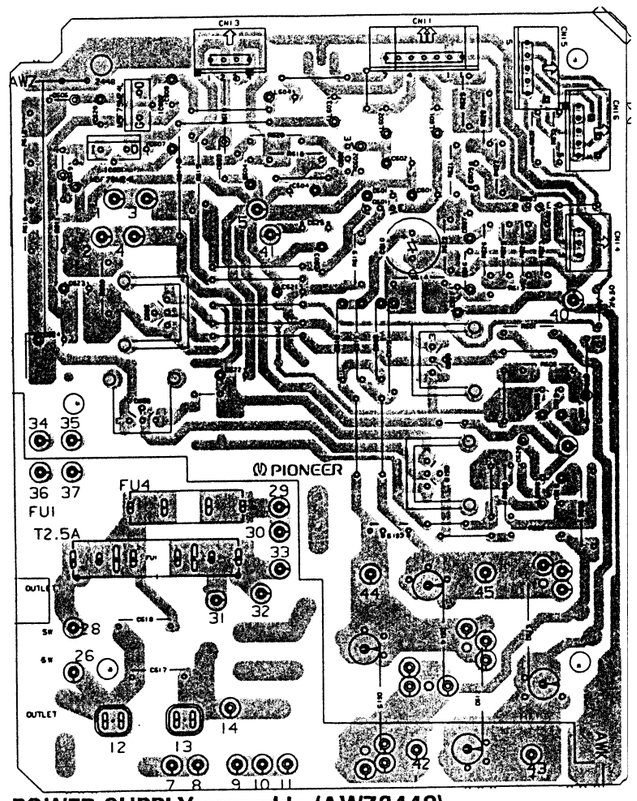
HEAD PHONE assembly



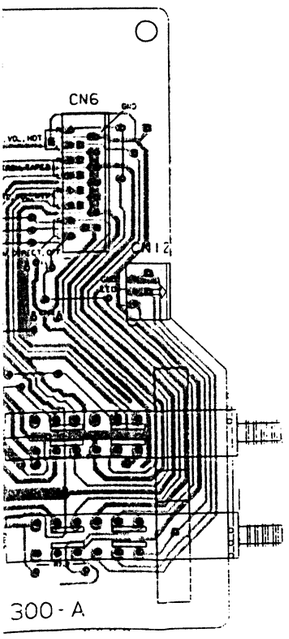
SPEAKER TERMINAL assembly (AWZ2449)

POWER AMP assembly (AWZ2447)





POWER SUPPLY assembly (AWZ2448)



Q108 D106 Q102 Q148 Q147 D105 Q101 Q107
Q120 D114 Q114 D118 Q116 D112 D110 Q112 Q110 D104 Q104 Q106 D102 Q103 Q105 D103 Q109 Q111 D109 D111 Q115 D117 Q113 D113 Q119
D126 D124 Q124 Q122 D140 Q126 D116 Q118 Q143 Q142 Q140 Q145 Q139 Q141 Q144 D131 D121 D119 Q117 D139 Q125 Q121 Q123 Q127 D123
Q132 Q136 Q128 D138 IC102 Q130 D122 D120 Q134 Q138 D130 D128 D127 D129 Q137 D141 Q133 Q129 IC101 D137 D125 D131 Q135

NOTE

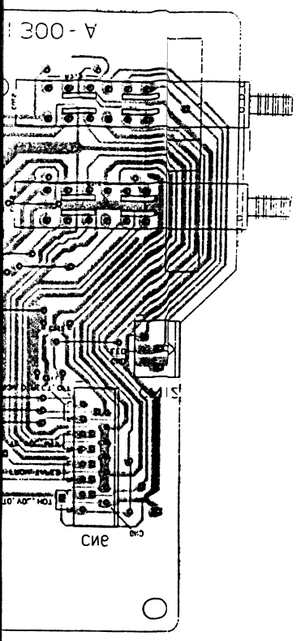
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

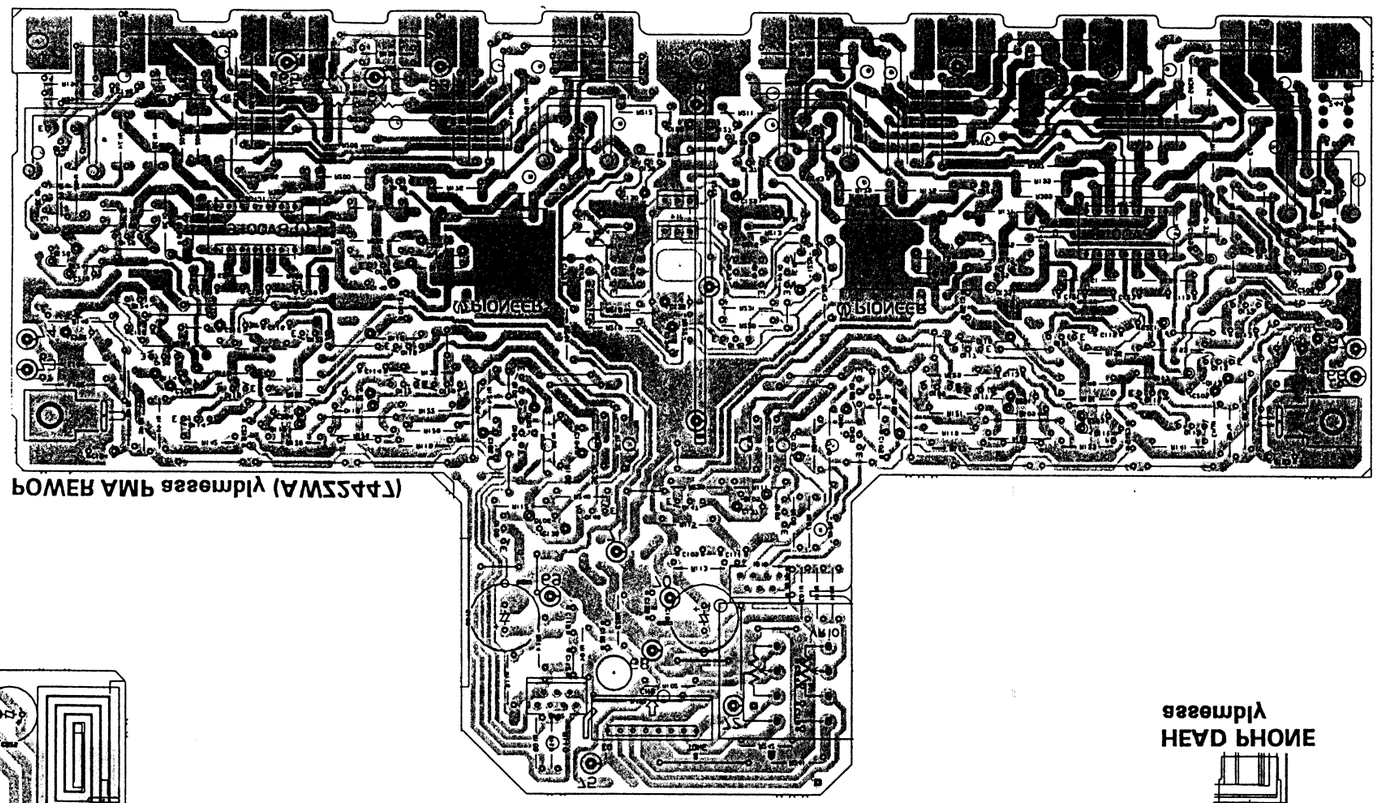
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 E C B	Q504 E C B or Q504 E C B	Transistor
Q215 C B E	Q215 C B E or Q215 C B E	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	C513	Capacitor (Polarity)
C518	C518	Capacitor (Non-polarity)

Others

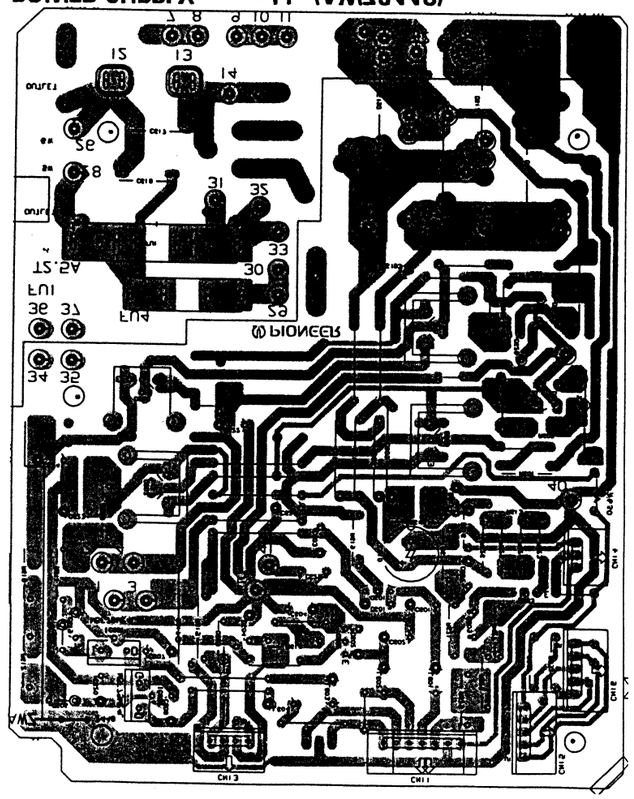
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ◎(double circles) shows negative terminal.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

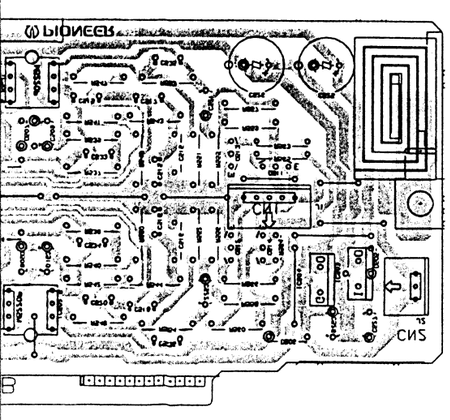




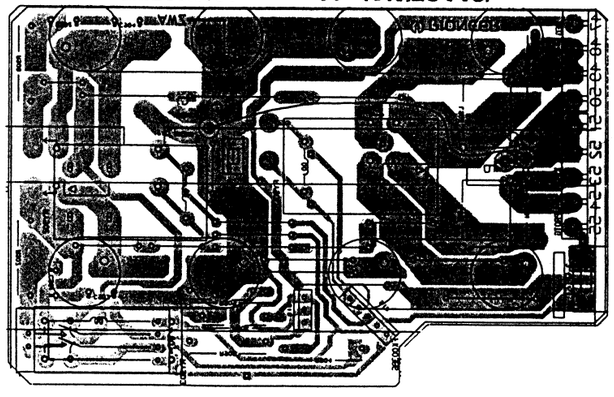
POWER AMP assembly (AWZ2447)



POWER SUPPLY assembly (AWZ2448)



HEAD PHONE assembly

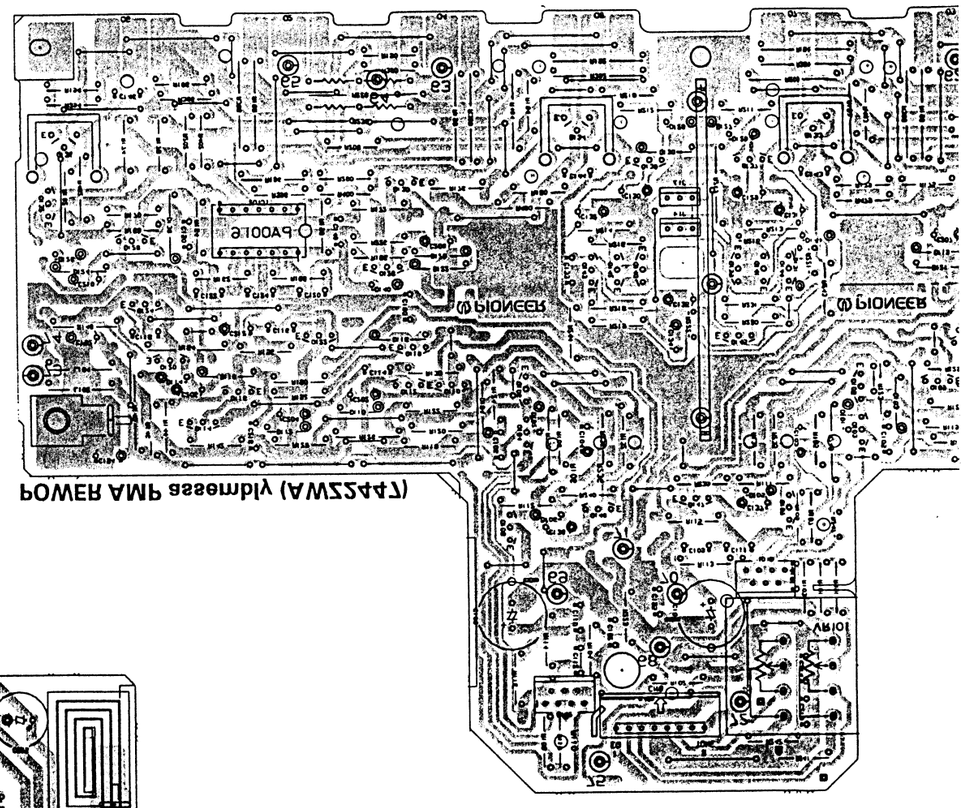


SPEAKER TERMINAL assembly (AWZ2449)

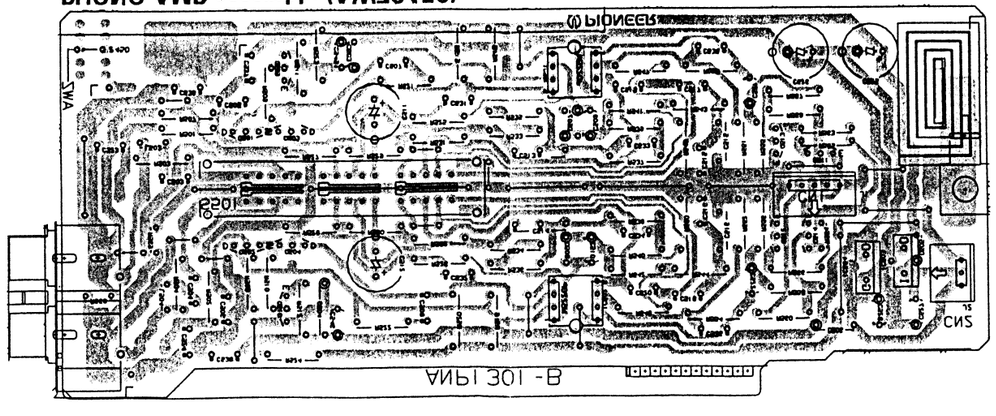
NOTE:
This picture shows the foil side of the printed circuit.

NOTE:
This picture shows the foil side of the printed circuit.

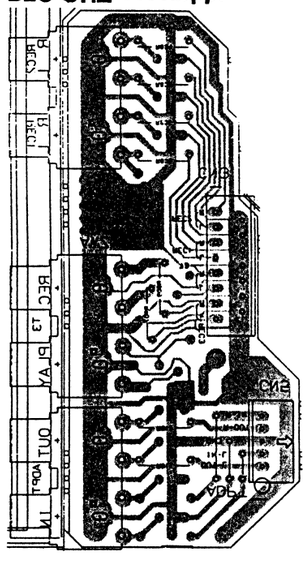
POWER AMP assembly (AWZ2447)



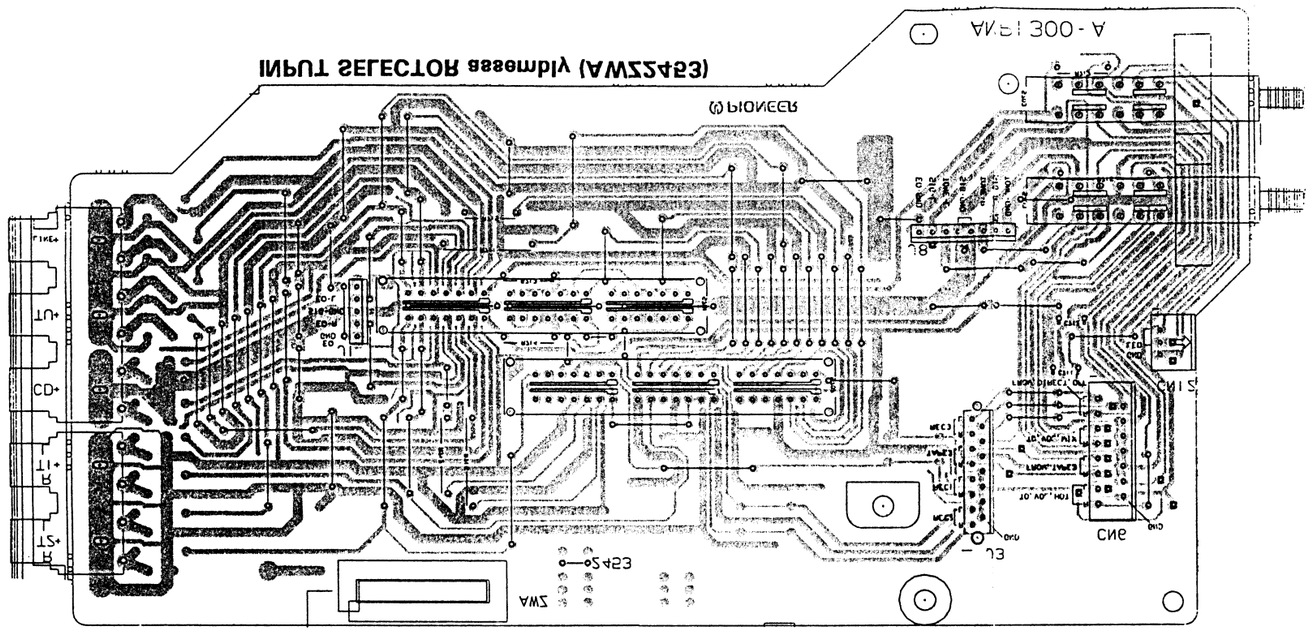
PHONO AMP assembly (AWZ2420)

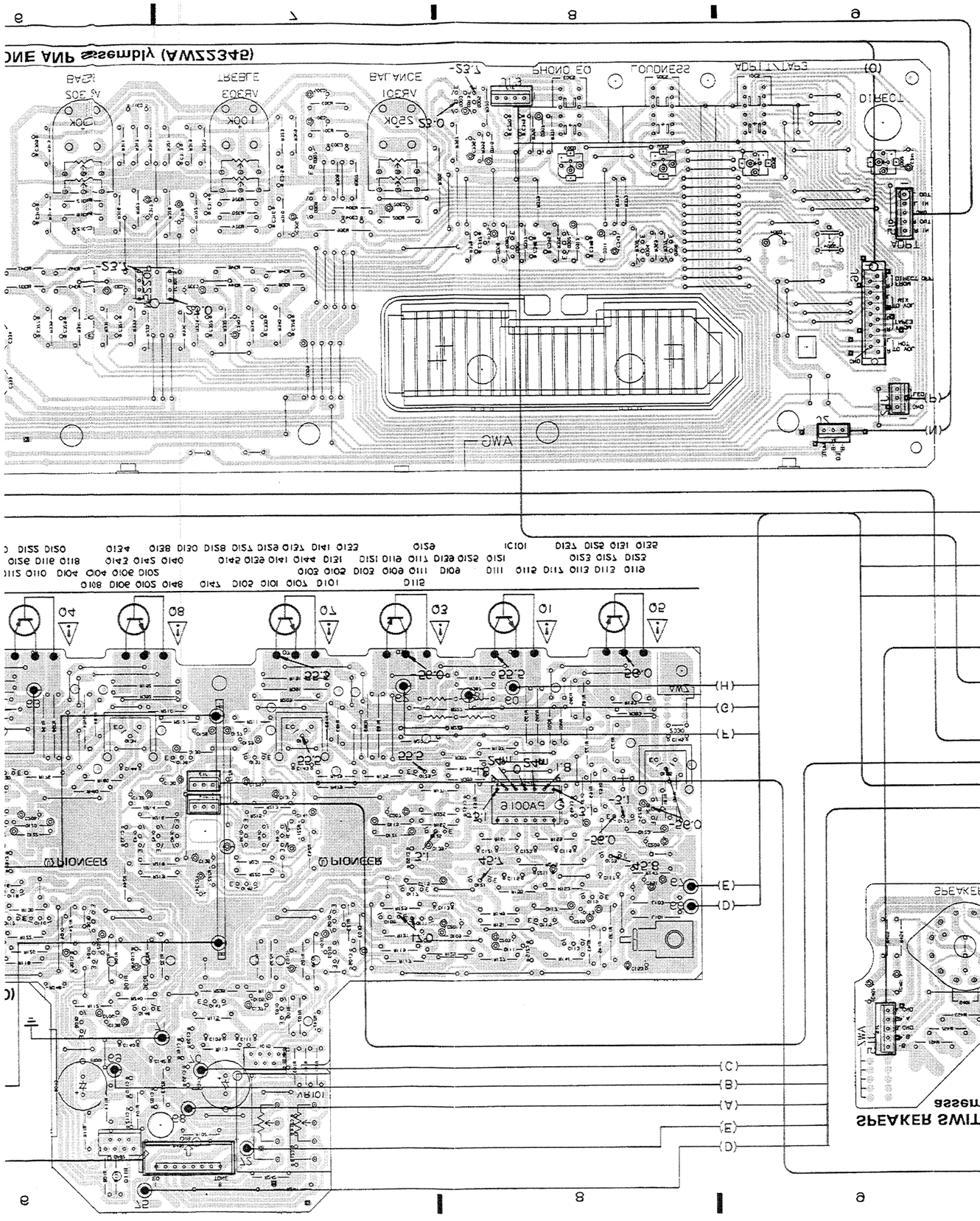


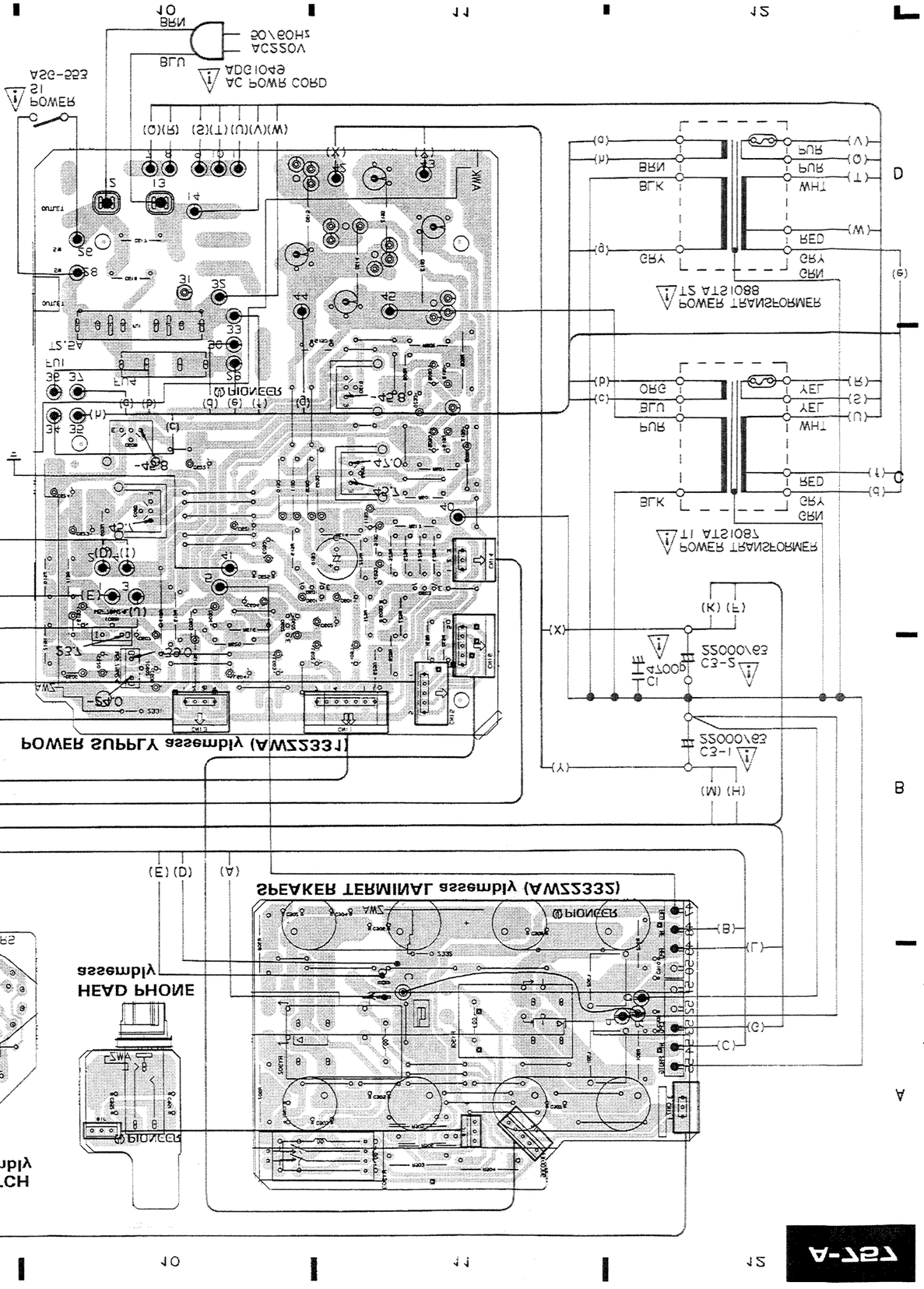
REC OUT assembly

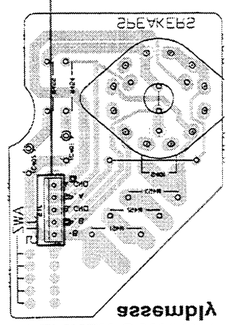


INPUT SELECTOR assembly (AWZ2423)




TONE AMP assembly (AWZ334)
BASS
TREBLE
BALANCE
LOUDNESS
PHONO EQ
ADAPTATOR
DIRECT
VOL
VARIABLE RESISTOR
PIONEER


POWER SUPPLY assembly (AWZ337)
POWER SW
AC POWER CORD
AC250V 50/60Hz
POWER TRANSFORMER T1
POWER TRANSFORMER T2
PIONEER

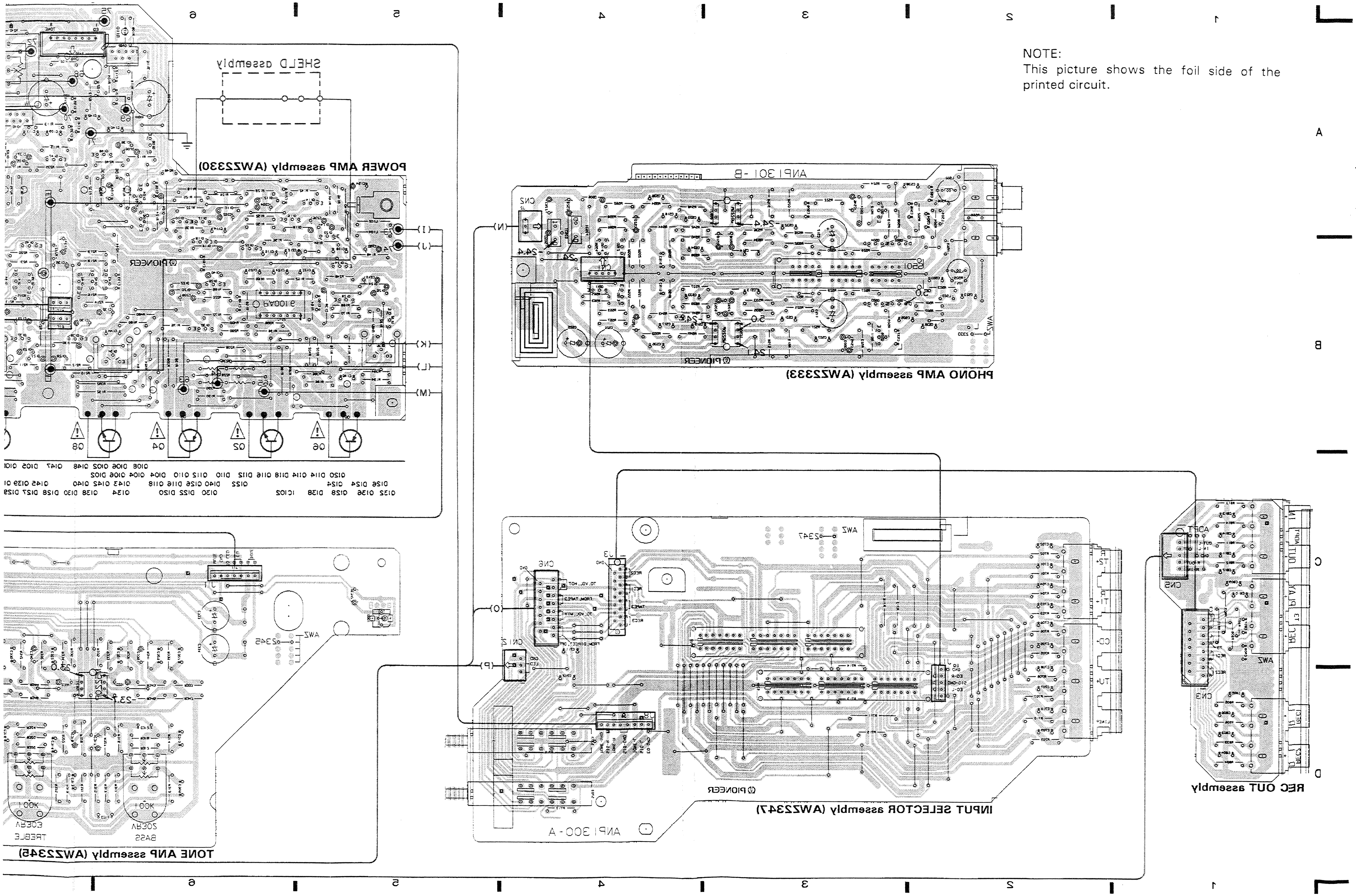

SPEAKER SWITCH assembly

HEAD PHONE assembly
PIONEER

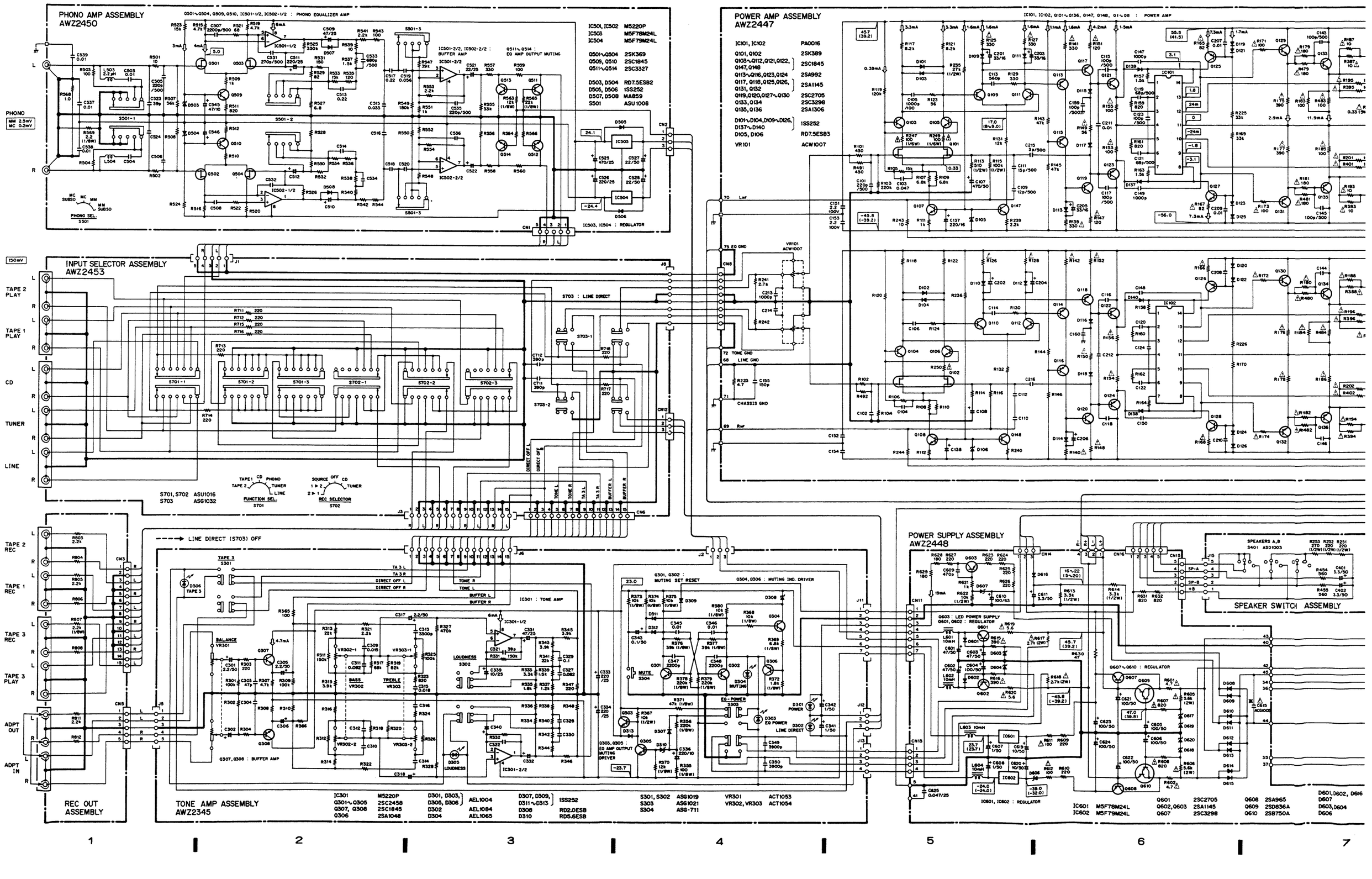
SPEAKER TERMINAL assembly (AWZ335)
PIONEER

A-727

NOTE:
This picture shows the foil side of the printed circuit.

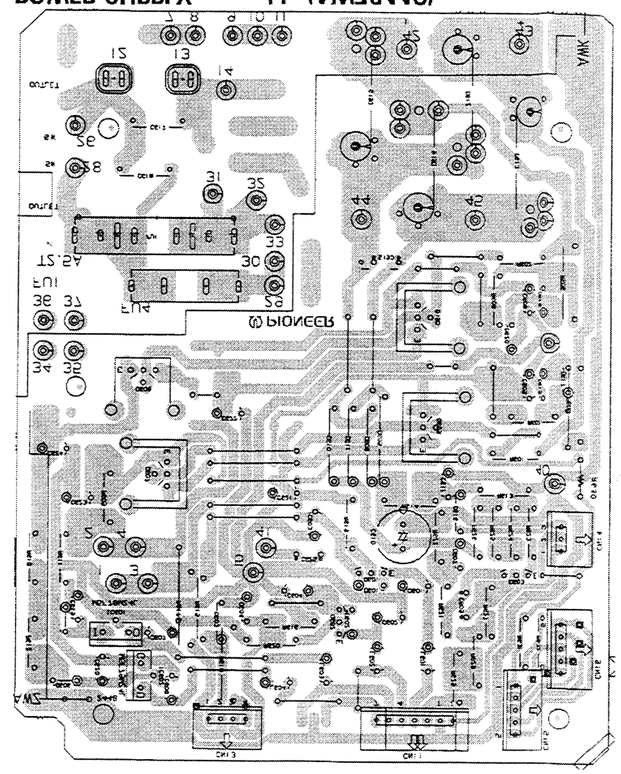


5.2 SCHEMATIC DIAGRAM

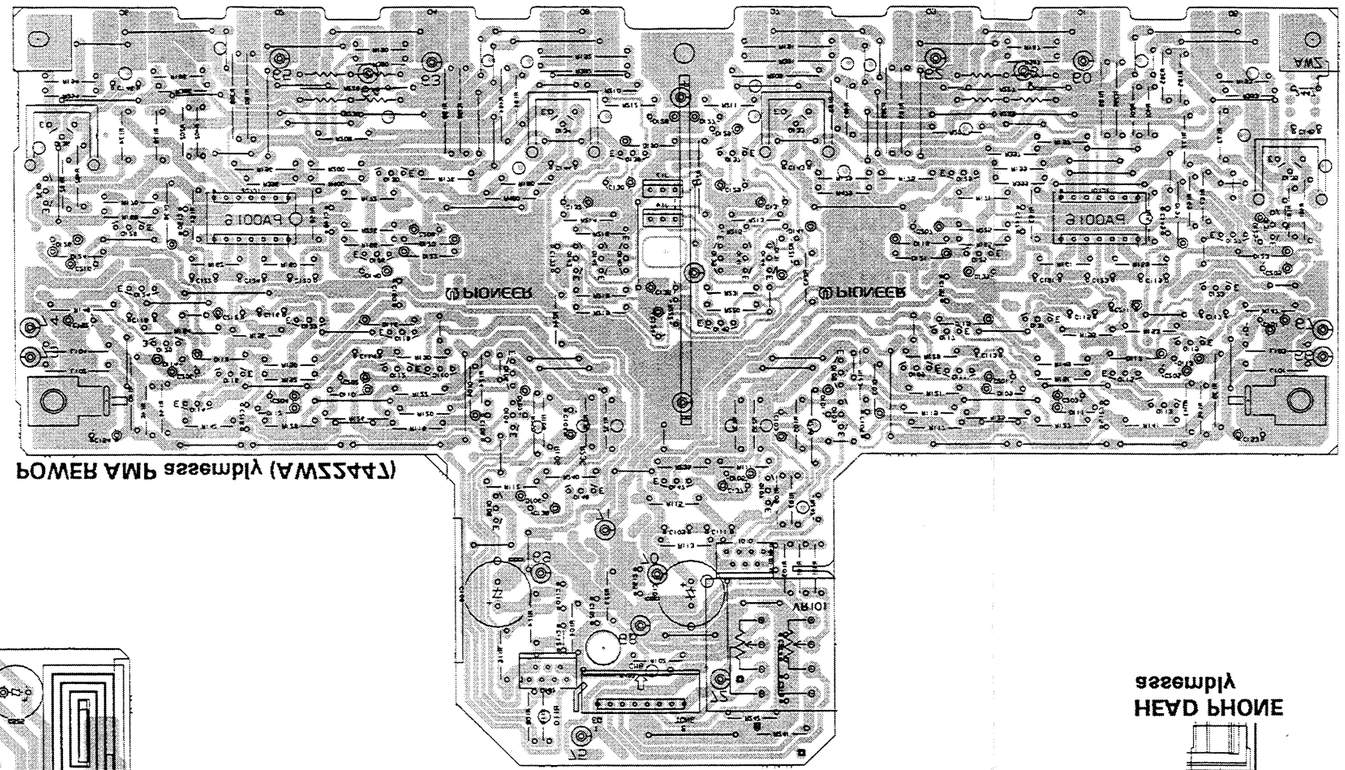


POWER AMP ASSEMBLY
AWZ2447
IC101, IC102 PA0016
Q101, Q102 2SK389
Q103~Q112, Q121, Q122, Q147, Q148 2SC1845
Q113~Q116, Q123, Q124 2SA992
Q117, Q118, Q125, Q126, Q131, Q132 2SA1145
Q119, Q120, Q127~Q130 2SC2705
Q133, Q134 2SC3298
Q135, Q136 2SA1306
D101~D104, D109~D126, D137~D140 1SS252
D105, D106 RD7.5ESB3
VR101 ACW1007
IC101, IC102, Q101~Q136, Q147, Q148, Q1~Q8 : POWER AMP
Q137, Q138 : OVER LOAD DETECTOR
Q143 : POWER OFF DETECTOR
Q144, Q145 : RELAY DRIVE
Q139~Q142 : DC DETECTOR
Q1, Q2, Q7, Q8 : 2SC3182N
Q3, Q4, Q5, Q6 : 2SA1265N
Q137, Q138 2SC1845
Q139~Q142, Q144 2SC2458
Q143 2SA1115
Q145 2SC1815
D127~D130, D141 1SS252
D131 RD12ES8
HEAD PHONE ASSEMBLY
66mV/8Ω
AKN1002
SPEAKER TERM ASSEMBLY
AWZ2449
22.6V/4Ω
26.1V/8Ω
IC501, IC502 M5220P
IC503 M5F78M24L
IC504 M5F79M24L
S501~S504 2SK369
S509, S510 2SC1845
S511~S514 2SC3327
D503, D504 RD7.5ESB2
D505, D506 1SS252
D507, D508 MA859
S501 ASU1008
IC503, IC504 : REGULATOR
S703 : LINE DIRECT
POWER SUPPLY ASSEMBLY
AWZ2448
SPEAKERS A, B
S401 ASD1003
SPEAKER SWITCH ASSEMBLY
C3 : ACH1045
POWER TRANSFORMER T1 ATS1087
POWER TRANSFORMER T2 ATS1088
FU1 T4A AEK-400
POWER S1 ASG-353
POWER CORD ADG1049
AC 220V 50/60 Hz
0301, 0302 : MUTING SET RESET
0304, 0306 : MUTING IND. DRIVER
0303, 0305 : EQ AMP OUTPUT MUTING DRIVER
0603 : LED POWER SUPPLY
0601, 0602 : REGULATOR
0607~0610 : REGULATOR
IC601, IC602 : REGULATOR
IC601 M5F78M24L
IC602 M5F79M24L
Q601 2SC2705
Q602, Q603 2SA1145
Q607 2SC3298
Q608 2SA965
Q609 2SD836A
Q610 2SB750A
D601, D602, D616 1SS252
D607 RD18ESB
D603, D604 RD39ESB1
D606 RD2.7ESB
D608, D609 S5566
D610, D611 S5566
D612~D615 30DF2FC-2
D617~D620 RD24ESB1
D301, D309, D313 1SS252
RD2.0ESB
RD5.6ESB
S301, S302 ASG1019
S303 ASG1021
S304 ASG-711
VR301 ACT1053
VR302, VR303 ACT1054
1. RESISTORS
Indicated in Ω, 1/4W, ±5% tolerance unless otherwise noted k: kΩ, M: MΩ.
2. CAPACITORS
Indicated in capacity(μF)/volutage(V) unless otherwise noted P: PF.
Indication without voltage is 50V.
3. VOLTAGE CURRENT
V : Signal voltage at ( ) output (1kHz).
V : DC voltage (V) at no input signal.
Value in ( ) is DC voltage at rated power.
: DC current at no input signal.
4. OTHERS
: Signal route
The △ mark found on some components parts indicates the importance of the safety factor of the parts.
Therefore, when replacing, be sure to use parts of indentical designation.
5. SWITCHES
S1 : POWER (ON-OFF)
S301 : TAPE 3 (ON-OFF)
S302 : LOUDNESS (ON-OFF)
S303 : EQ. POWER (ON-OFF)
S304 : MUTING (ON-OFF)
S401 : SPEAKERS A, B (OFF-A-B-A+B)
S501 : PHONO SEL. (MC SUB-MC-MM-MM SUB)
S701 : FUNCTION SEL. (TAPE 1-TAPE 2-PHONO-TUNER-LINE)
S702 : REC SEL. (2→1-1→2-SOURCE-OFF-CD-TUNER)
S703 : LINE DIRECT (ON-OFF)

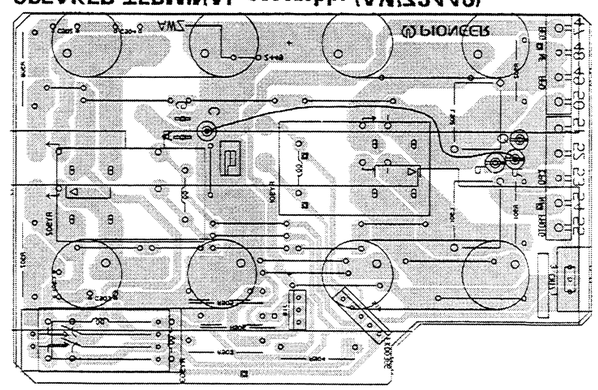
POWER SUPPLY assembly (AWZ2448)



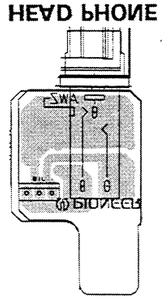
POWER AMP assembly (AWZ2447)



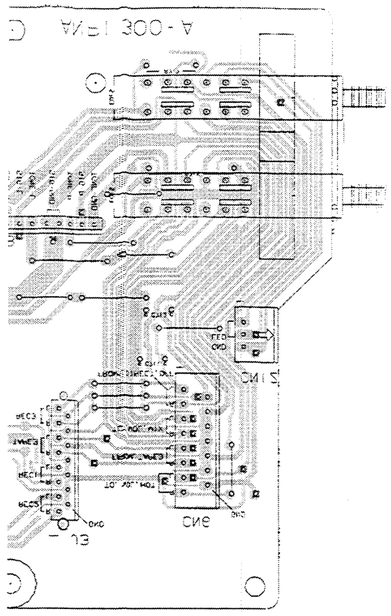
SPEAKER TERMINAL assembly (AWZ2449)

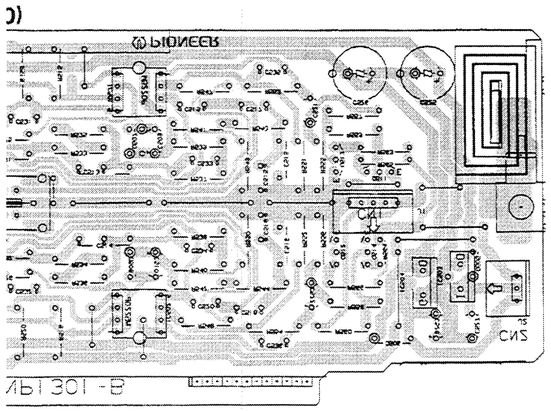


HEAD PHONE assembly

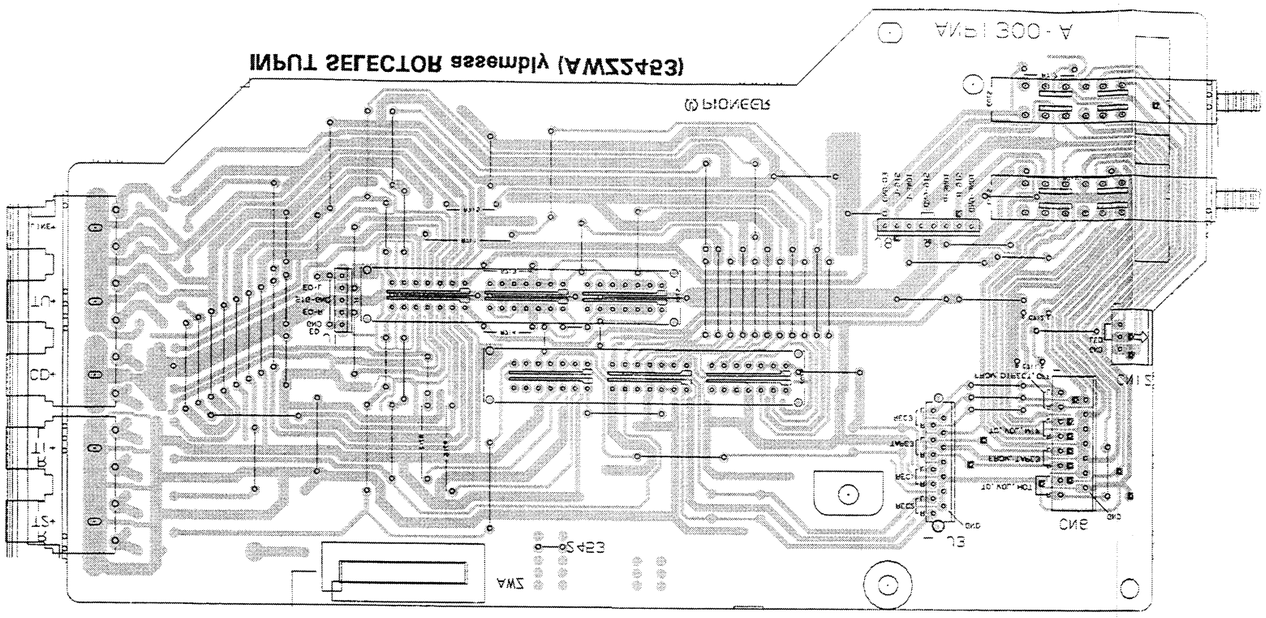


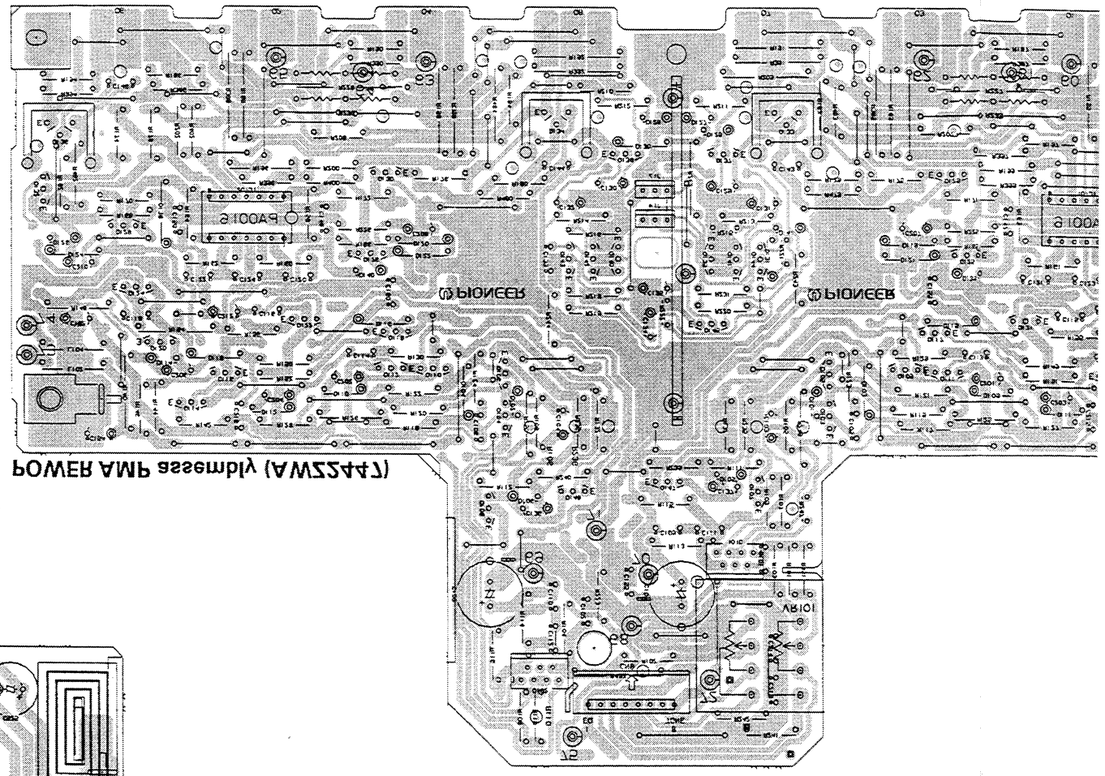
NOTE:
This picture shows the foil side of the printed circuit.

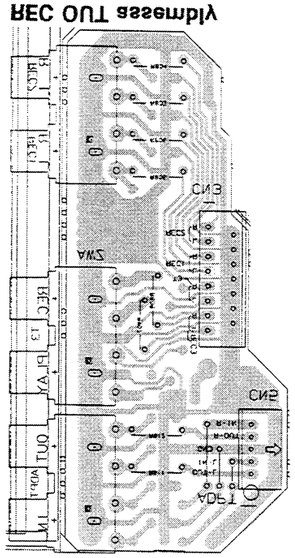


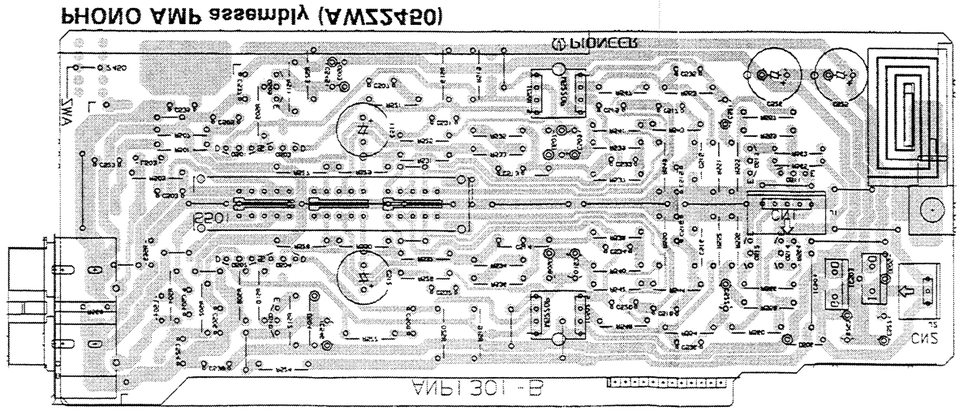


5.3 P.C.BOARD PATTERNS



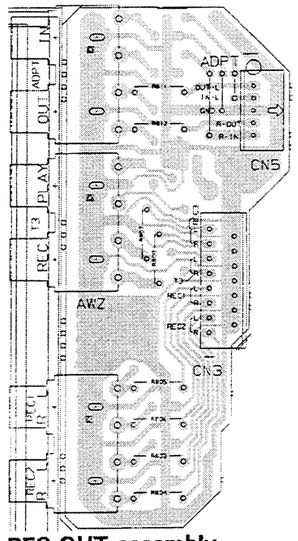




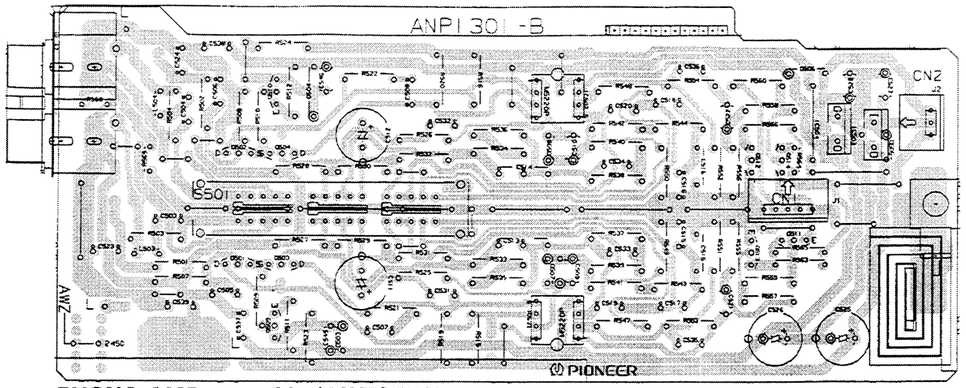


NOTE:
This picture shows the foil side of the printed circuit.

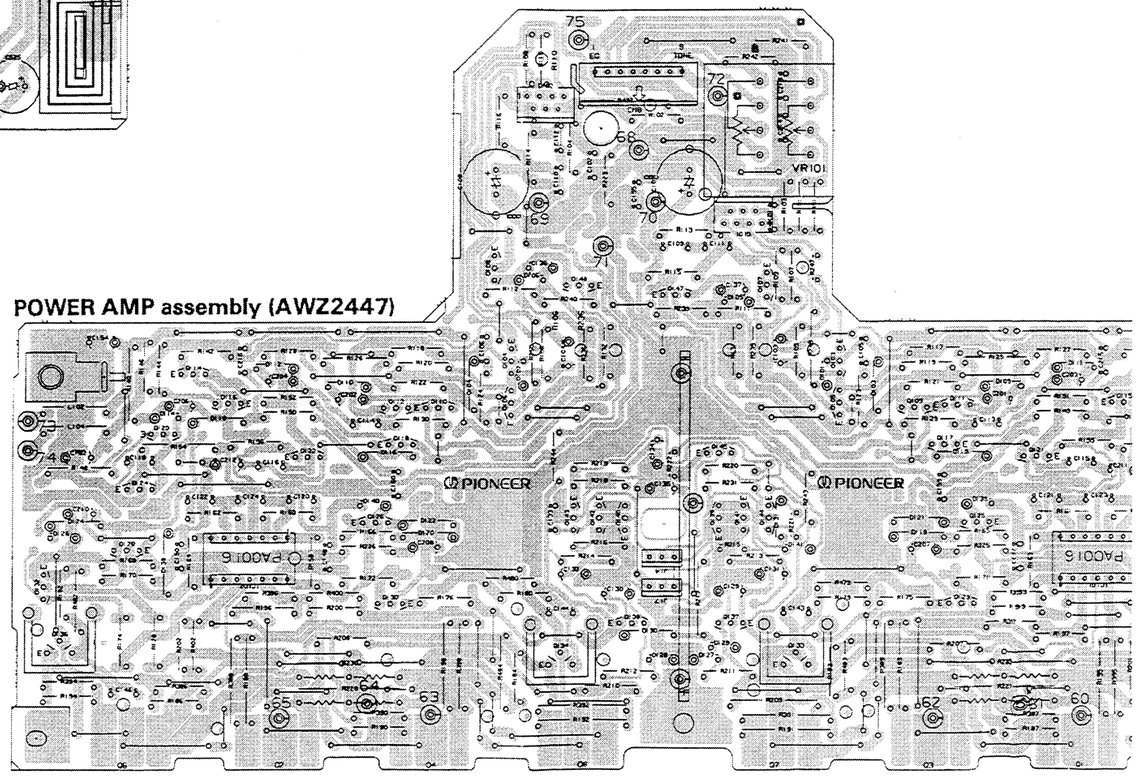
5.3 P.C.BOARD PATTERNS



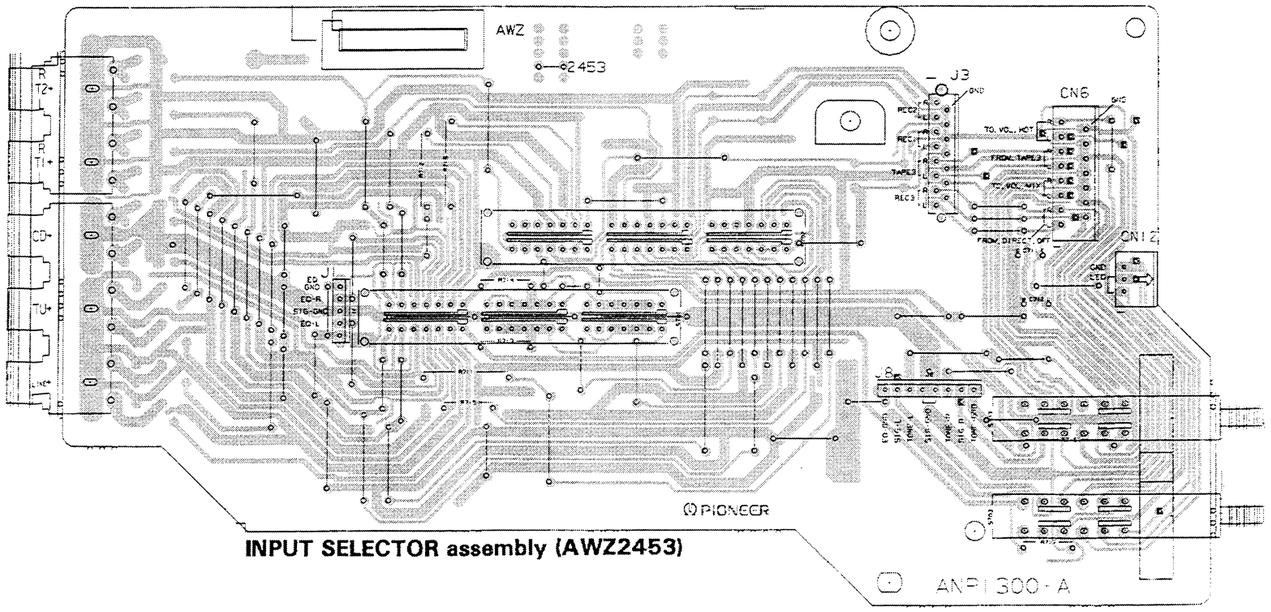
REC OUT assembly



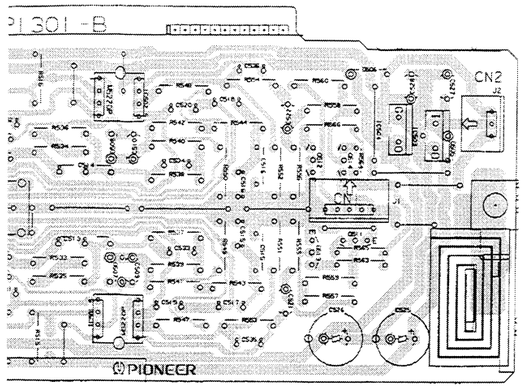
PHONO AMP assembly (AWZ2450)

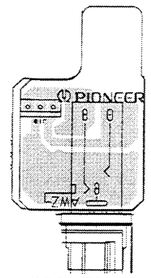


POWER AMP assembly (AWZ2447)

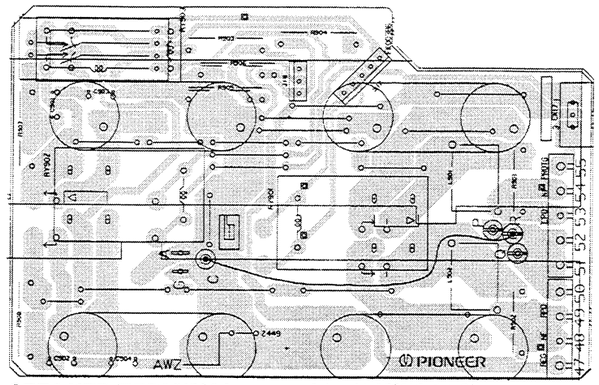


INPUT SELECTOR assembly (AWZ2453)



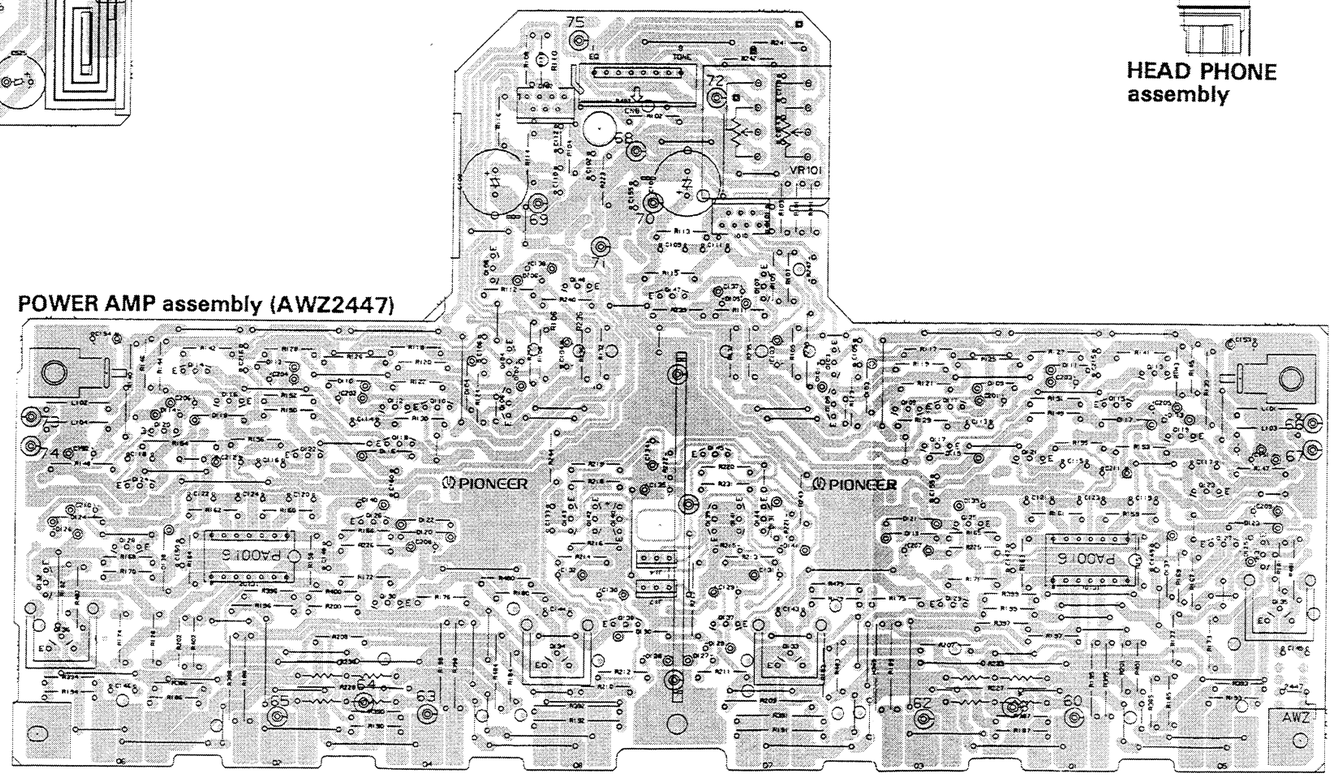


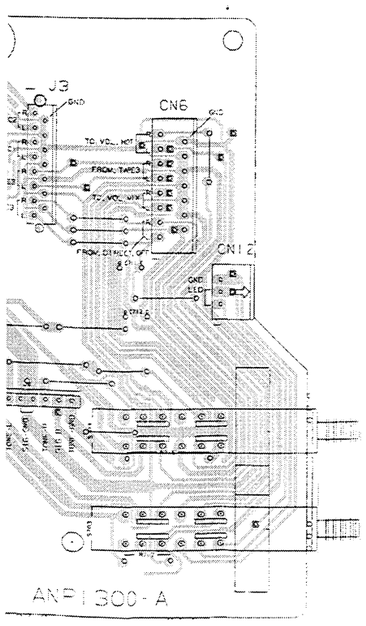
HEAD PHONE assembly

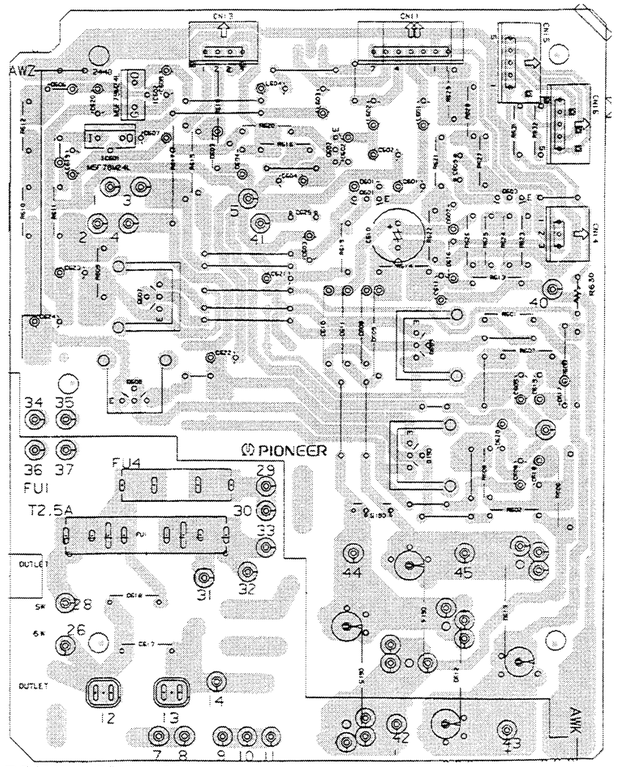


SPEAKER TERMINAL assembly (AWZ2449)

POWER AMP assembly (AWZ2447)







POWER SUPPLY assembly (AWZ2448)

SWITCHES

Mark	Symbol & Description	Part No.
	S304 Tact switch (MUTING)	ASG−711
	S301,S302 Push switch (TAPE 3, LOUDNESS)	ASG1019
	S303 Push switch (EQ.POWER)	ASG1021

CAPACITORS

Mark	Symbol & Description	Part No.
	C321,C322	CCCSL390J50
	C303,C304	CCCSL470J50
	C343	CEAS0R1M50
	C341,C342	CEAS010M50
	C339,C340	CEAS100M25
	C301,C302,C305,C306,C317, C318	CEAS2R2M50
	C336	CEAS221M10
	C333,C334	CEAS221M25
	C331,C332	CEAS470M25
	C329,C330	CFTXA104J50
	C309,C310	CFTXA153J50
	C315,C316	CFTXA183J50
	C311,C312,C327,C328	CFTXA823J50
	C347,C348	CKCYB222K50
	C349,C350	CKCYB392K50
	C345,C346	CKCYF103Z50
	C313,C314	CQMA332K50

RESISTORS

Mark	Symbol & Description	Part No.
	VR301 (250k × 2)	ACT1053
	VR302,VR303 (100k × 2)	ACT1054
	R367	RD1/2PM103J
	R355,R356,R368−R380	RD1/8PM□□□J
	Other resistors	RD1/4PM□□□J

REC OUT assembly

CAPACITORS

Mark	Symbol & Description	Part No.
	C803−C814	CKCYB331K50

RESISTORS

Mark	Symbol & Description	Part No.
	R803−R806,R811−R814	RD1/4PM□□□J
	R807−R810	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	Terminal 4P (TAPE 1−3,ADAPTER)	AKB1009

INPUT SELECTOR assembly (AWZ2347)

SWITCHES

Mark	Symbol & Description	Part No.
	S703 Push switch (LINE DIRECT)	ASG1032
	S701,S702 Remote slide switch (FUNCTION SEL., REC SEL.)	ASU1016

CAPACITORS

Mark	Symbol & Description	Part No.
	C701−C704,C707−C710	CKCYB331K50
	C711,C712	CKCYB391K50
	C705,C706	CKCYB331K500

RESISTORS

Mark	Symbol & Description	Part No.
	R701−R712	RDR1/4PM221J
	R713−R718	RD1/4PM221J

OTHERS

Mark	Symbol & Description	Part No.
	Terminal 4P (TAPE 1,TAPE 2)	AKB1007
	Terminal 6P (CD,TUNER,LINE)	AKB1029

POWER AMP assembly (AWZ2330)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC101,IC102	PA0016
	Q143	2SA1115
	Q117,Q118,Q125,Q126,Q131, Q132	2SA1145
	Q135,Q136	2SA1306
	Q113−Q116,Q123,Q124	2SA992
	Q145	2SC1815
	Q103−Q112,Q121,Q122,Q137, Q138,Q147,Q148	2SC1845
	Q139−Q142,Q144	2SC2458
	Q119,Q120,Q127−Q130	2SC2705
	Q133,Q134	2SC3298
	Q101,Q102	2SK389
	D131 Zener diode	RD11ESB
	D105,D106 Zener diode	RD7.5ESB3
	D101−D104,D109−D130, D137−D140,D141	1SS252

COILS

Mark	Symbol & Description	Part No.
	L101−L104 (Bead filter)	ATX1012

CAPACITORS

Mark	Symbol & Description	Part No.
	C139−C142	CCCSL221J50

4. ELECTRICAL PARTS LIST

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	*56 × 10¹*	*561*	*RD1/4PS 5 6 1 J*
47kΩ	*47 × 10³*	*473*	*RD1/4PS 4 7 3 J*
0.5Ω	*0R5*		*RN2H 0 R 5 K*
1Ω	*010*		*RS1P 0 1 0 K*

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	*562 × 10¹*	*5621*	*RN1/4SR 5 6 2 1 F*

Miscellaneous parts

P.C.BOARD ASSEMBLIES

Mark	Symbol & Description	Part No.
	SPEAKER SWITCH assembly	
	TONE AMP assembly	AWZ2345
	REC OUT assembly	
	INPUT SELECTOR assembly	AWZ2347
	POWER AMP assembly	AWZ2330
	POWER SUPPLY assembly	AWZ2331
	SPEAKER TERMINAL assembly	AWZ2332
	PHONO AMP assembly	AWZ2333
	HEAD PHONE assembly	
	SHIELD assembly	

OTHERS

Mark	Symbol & Description	Part No.
⚠	Q3−Q6 Transistor	2SA1265N
⚠	Q1,Q2,Q7,Q8 Transistor	2SC3182N
⚠	S1 Push switch (POWER)	ASG−553
	S3 Remote slide rotary switch	ASU1024
	S2 Remote slide rotaty switch	ASU1025
	S4 Remote slide rotary switch	ASU1026
⚠	T1 Power transformer (AC220V/240V)	ATS1087
⚠	T2 Power transformer (AC220V/240V)	ATS1088
⚠	FU1 Fuse (T4A/250V)	AEK−400
⚠	C3 Electrolytic capacitor (22000μF/63)	ACH1045
⚠	R2 Carbon film resistor	RD1/4PM100J
⚠	R1 Carbon film resistor	RD1/4PM4R7J
⚠	AC Power cord	ADG1049
	Strain relief	AEC−882

SPEAKER SWITCH assembly

SWITCH

Mark	Symbol & Description	Part No.
	S401 Rotary switch (SPEAKERS)	ASD1003

CAPACITORS

Mark	Symbol & Description	Part No.
	C401,C402	CEAS3R3M50

RESISTORS

Mark	Symbol & Description	Part No.
	R451−R453	RD1/2PM□□□J
	R454,R455	RD1/4PM561J

TONE ANP sssembly (AWZ2345)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC301	M5220P
	Q306	2SA1048
	Q301−Q305	2SC2458
	Q307,Q308	2SC1845
	D301,D303,D305,D306	AEL1004
	LED assembly	
	D304 LED	AEL1055
	D302 LED	AEL1034
	D308 Zener diode	RD2.0ESB
	D310 Zener diode	RD5.6ESB
	D307,D309,D311−D313	1SS252

COILS

Mark	Symbol & Description	Part No.
	L901,L902 AF Choke coil (2.7μH)	ATH1021

CAPACITORS

Mark	Symbol & Description	Part No.
	C909,C910	CCDSL101K500
	C901－C904	CFTXA104J50
	C905－C908	CQMXA472J100

RESISTORS

Mark	Symbol & Description	Part No.
⚠	R901,R902	RS1LMF101J
⚠	R905,R906	RS1PMF681J
⚠	R903,R904,R907,R908	RS2LMF□□□J

OTHER

Mark	Symbol & Description	Part No.
	Terminal 4P (SPEAKER)	AKE1006

PHONO AMP assembly (AWZ2333)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC503	M5F78M24L
	IC504	M5F79M24L
	IC501,IC502	M5220P
	Q509,Q510	2SC1845
	Q511－Q514	2SC3327
	Q501－Q504	2SK369
	D503,D504 Zener diode	RD7.5ESB2
	D507,D508	MA859
	D505,D506	1SS252

SWITCH

Mark	Symbol & Description	Part No.
	S501 Remote slide switch (PHONO SEL.)	ASU1008

COILS

Mark	Symbol & Description	Part No.
	L501,L502 (560μH)	ATH1024
	L503,L504 (2.2μH)	LAU2R2M

CAPACITORS

Mark	Symbol & Description	Part No.
	C535,C536,C505,C506	CCCSL221K500
	C531,C532	CCCSL271K500
	C545,C546	CEAS470M10
	C521,C522	CEXA220M25
	C527,C528	CEXA220M50
	C523,C524	CCDSL390J50
	C511,C512,C526	CEXA221M25
	C509,C510	CEXA470M25
	C525	CEXA471M25
	C503,C504	CFTXA103J50
	C517,C518	CFTXA224J50
	C519,C520	CFTXA563J50
	C507,C508	CKCYB222K500
	C533,C534	CKCYB681K500
	C537,C538	CKCYF103Z50
	C539	CKDYF103Z50
	C513,C514	CQPXA224J2A
	C515,C516	CQPXA333J2A

RESISTORS

Mark	Symbol & Description	Part No.
	R505,R506,R563－R566,R568, R569	RD1/8PM□□□J
	R501－R504,R507,R508, R527－R544	RDR1/4PM□□□J
	Other resistors	RD1/4PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	Terminal 1P (PHONO L)	AKB1027
	Terminal 1P (PHONO R)	AKB1028

HEAD PHONE assembly

CAPACITORS

Mark	Symbol & Description	Part No.
	C951,C952	CKCYB392K50

OTHERS

Mark	Symbol & Description	Part No.
	Jack (HEAD PHONE)	AKN1002

SHIELD assembly

No parts are supplied with SHIELD assembly

Mark	Symbol & Description	Part No.
	C113,C114	CCCSL271J50
	C135	CEASR47M100
	C129,C130	CEAS010M50
	C155	CCDSL151J50
	C134	CEAS101M16
	C131,C132	CEAS471M6
	C137,C138	CEEA221M16
	C107,C108	CEEA471M50
	C201－C206	CEYA330M16
	C103,C104	CFTXA473J50
	C147－C150	CKCYB102K50
	C133	CKCYF103Z50
	C207－C212	CKDYF103K50
	C213,C214	CKDYF102Z50
	C215,C216	CMA030D500
	C115－C118,C123,C124, C143－C146,C159,C160	CMA101J500
	C111,C112	CMA150J500
	C101,C102	CMA221J500
	C109,C110	CMA120J500
	C119－C122	CMA680J500
	C105,C106	CQMXA102J100
	C151－C154	CQMXA562J100

RESISTORS

Mark	Symbol & Description	Part No.
	VR101 (60k×2)	ACW1007
⚠	R227－R230 (0.33×2)	ACN－139
	R113－R116	RDR1/2PM□□□J
	R101－R104,R111,R112,R123, R124,R129,R130,R223, R239－R246,R491,R492	RDR1/4PM□□□J
	R131,R132,R235,R236	RD1/2PM□□□J
⚠	R247－R250	RDR1/6PU101J
	R105－R110,R117－R122, R143－R146,R157－R164,R169, R170,R211－R214,R218－R220, R225,R226,R231	RD1/4PM□□□J
⚠	R125－R128,R139－R142,R149, R150,R153－R156,R183－R186 R195－R202,R385,R386 R395－R402,R483,R484	RFA1/4PS□□□J
	R215,R216,R221,R222	RD1/8PM□□□J
⚠	Other resistors	RD1/4PMF□□□J

POWER SUPPLY assembly (AWZ2331)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC601	M5F78M24L
	IC602	M5F79M24L
	Q602,Q603	2SA1145
	Q608	2SA965
	Q610	2SB750A
	Q601	2SC2705
	Q607	2SC3298
	Q609	2SD836A
	D607 Zener diode	RD18ESB
	D606 Zener diode	RD2.7ESB
	D617－D620 Zener diode	RD24ESB1
	D603,D604 Zener diode	RD39ESB1
	D610,D611,D608,D609	S5566
	D601,D602,D616	1SS252
	D612－D615	30DF2FC－2

COILS

Mark	Symbol & Description	Part No.
	L601－L604 Inductor (10mH)	LTA103J

CAPACITORS

Mark	Symbol & Description	Part No.
⚠	C617,C618 (0.01/400V)	ACG1003
	C607,C608	CEAS010M50
	C619,C620	CEAS100M50
	C604－C606,C621－C624	CEAS101M50
	C610	CEAS101M63
	C611	CEAS3R3M50
	C601－C603	CEAS470M50
	C609	CKCYB471K50
	C625	CKCYX473M25
⚠	C615	CQMXA104J100

RESISTORS

Mark	Symbol & Description	Part No.
	R613,R614,R622	RD1/2PM□□□J
⚠	R615,R616	RD1/4PMF391J
⚠	R608	RD1/4PM821J
⚠	R601,R602,R611,R612,R619, R620	RFA1/4PS□□□J
⚠	R605,R606	RS2LMF562J
	R617,R618	RS2LMF272J
	Other resistors	RD1/4PM□□□J

SPEAKER TERMINAL assembly (AWZ2332)

RELAIES

Mark	Symbol & Description	Part No.
	RY901,RY902 Relay	ASR1026
	RY903 Relay	ASR1014

5. FOR HE TYPE

5.1 CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

The A-757/HE type is the same as the A-757/HEZ type with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		A-757/HEZ type	A-757/HE type	
	REC OUT assembly	Non supply	Non supply	
	INPUT SELECTOR assembly	AWZ2347	AWZ2453	
	POWER AMP assembly	AWZ2330	AWZ2447	
	POWER SUPPLY assembly	AWZ2331	AWZ2448	
	SPEAKER TERMINAL assembly	AWZ2332	AWZ2449	
	PHONO AMP assembly	AWZ2333	AWZ2450	
	HEAD PHONE assembly	Non supply	Non supply	
⚠	R2 Carbon film resistor	RD1/4PM100J	.....	
⚠	R1 Carbon film resistor	RD1/4PM4R7J	.....	
	Operating instructions (German)	ARC1146	.....	
	Operating instructions (English, German, French, Itallan, Dutch, Swedish, Spanish, Portguese)	.....	ARE1126	

REC OUT assembly
The REC OUT assembly (HE type) is the same as the REC OUT assembly (HEZ type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HEZ type	HE type	
	C803–C814	CKCYB331K50	.....	
	R803–R806,R811,R812	RD1/4PM182J	RD1/4PM222J	
	R807,R808	RD1/8PM182J	RD1/8PM222J	
	R809,R810	RD1/8PM221J	.....	
	R813,R814	RD1/4PM221J	.....	

INPUT SELECTOR assembly (AWZ2453)
The INPUT SELECTOR assembly (AWZ2453) is the same as the INPUT SELECTOR assembly (AWZ2347) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2347	AWZ2453	
	C701,C704,C707–C710	CKCYB331K50	.....	
	C705,C706	CKCYP331K500	.....	
	R701–R710	RDR1/4PM221J	.....	

POWER AMP assembly (AWZ2447)
The POWER AMP assembly (AWZ2447) is the same as the POWER AMP assembly (AWZ2330) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2330	AWZ2447	
	C113,C114	CCCSL271J50	CKCYB561K50	
	C139–C142	CCCSL221J50	.....	
	C151–C154	CQMXA562J100	CEXA2R2M2A	
	C155	CCDSL151J50	.....	
⚠	R245,R246	RD1/4PM100J	.....	
⚠	R171–R174	RD1/4PMF181J	RFA1/4PS101J	
⚠	R175–R178	RD1/4PMF821J	RFA1/4PS391J	
⚠	R179–R182	RD1/4PMF181J	RFA1/4PS181J	

POWER SUPPLY assembly (AWZ2448)
The POWER SUPPLY assembly (AWZ2448) is the same as the POWER SUPPLY assembly (AWZ2331) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2331	AWZ2448	
⚠	C615	CQMXA104J100	ACG1005	
	R609,R610	RD1/4PM101J	RFA/4PS221J	
	D611,R612	RFA1/4PS221J	RD1/4PM101J	
	R626	RD1/4PM221J	RAF1/4PS221J	
	R630	.....	RAF1/4PS470J	

SPEAKER TERMINAL assembly (AWZ2449)
The SPEAKER TERMINAL assembly (AWZ2449) is the same as the SPEAKER TERMINAL assembly (AWZ2332) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2332	AWZ2449	
	C905–C908	CQMXA472J100	.....	
	C909,C910	CCDSL101K500	.....	

PHONO AMP assembly (AWZ2450)
The PHONO AMP assembly (AWZ2450) is the same as the PHONO AMP assembly (AWZ2333) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2333	AWZ2450	
	L501,L502 (560μH)	ATH1024	.....	
	L503,L504	LAU2R2M	.....	
	C505,C506	CCCSL221K500	CCCSL271K500	
	C523,C524	CCDSL390J50	.....	
	R505,R506	RD1/8PM472J	.....	

HEAD PHONE assembly
The HEAD PHONE assembly (HE type) is the same as the HEAD PHONE assembly (HEZ type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HEZ type	HE type	
	C951,C952	CKCYB392K50	.....	

5. FOR HE TYPE

5.1 CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

The A-757/HE type is the same as the A-757/HEZ type with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		A-757/HEZ type	A-757/HE type	
	REC OUT assembly	Non supply	Non supply	
	INPUT SELECTOR assembly	AWZ2347	AWZ2453	
	POWER AMP assembly	AWZ2330	AWZ2447	
	POWER SUPPLY assembly	AWZ2331	AWZ2448	
	SPEAKER TERMINAL assembly	AWZ2332	AWZ2449	
	PHONO AMP assembly	AWZ2333	AWZ2450	
	HEAD PHONE assembly	Non supply	Non supply	
⚠	R2 Carbon film resistor	RD1/4PM100J	.....	
⚠	R1 Carbon film resistor	RD1/4PM4R7J	.....	
	Operating instructions (German)	ARC1146	.....	
	Operating instructions (English, German, French, Italian, Dutch, Swedish, Spanish, Portguese)	.....	ARE1126	

REC OUT assembly

The REC OUT assembly (HE type) is the same as the REC OUT assembly (HEZ type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HEZ type	HE type	
	C803–C814	CKCYB331K50	.....	
	R803–R806,R811,R812	RD1/4PM182J	RD1/4PM222J	
	R807,R808	RD1/8PM182J	RD1/8PM222J	
	R809,R810	RD1/8PM221J	.....	
	R813,R814	RD1/4PM221J	.....	

INPUT SELECTOR assembly (AWZ2453)

The INPUT SELECTOR assembly (AWZ2453) is the same as the INPUT SELECTOR assembly (AWZ2347) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2347	AWZ2453	
	C701,C704,C707–C710	CKCYB331K50	.....	
	C705,C706	CKCYP331K500	.....	
	R701–R710	RDR1/4PM221J	.....	

POWER AMP assembly (AWZ2447)

The POWER AMP assembly (AWZ2447) is the same as the POWER AMP assembly (AWZ2330) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2330	AWZ2447	
	C113,C114	CCCSL271J50	CKCYB561K50	
	C139–C142	CCCSL221J50	.....	
	C151–C154	CQMXA562J100	CEXA2R2M2A	
	C155	CCDSL151J50	.....	
⚠	R245,R246	RD1/4PM100J	.....	
⚠	R171–R174	RD1/4PMF181J	RFA1/4PS101J	
⚠	R175–R178	RD1/4PMF821J	RFA1/4PS391J	
⚠	R179–R182	RD1/4PMF181J	RFA1/4PS181J	

POWER SUPPLY assembly (AWZ2448)

The POWER SUPPLY assembly (AWZ2448) is the same as the POWER SUPPLY assembly (AWZ2331) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2331	AWZ2448	
⚠	C615	CQMXA104J100	ACG1005	
	R609,R610	RD1/4PM101J	RFA/4PS221J	
	D611,R612	RFA1/4PS221J	RD1/4PM101J	
	R626	RD1/4PM221J	RAF1/4PS221J	
	R630	.....	RAF1/4PS470J	

SPEAKER TERMINAL assembly (AWZ2449)

The SPEAKER TERMINAL assembly (AWZ2449) is the same as the SPEAKER TERMINAL assembly (AWZ2332) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2332	AWZ2449	
	C905–C908	CQMXA472J100	.....	
	C909,C910	CCDSL101K500	.....	

PHONO AMP assembly (AWZ2450)

The PHONO AMP assembly (AWZ2450) is the same as the PHONO AMP assembly (AWZ2333) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		AWZ2333	AWZ2450	
	L501,L502 (560μH)	ATH1024	.....	
	L503,L504	LAU2R2M	.....	
	C505,C506	CCCSL221K500	CCCSL271K500	
	C523,C524	CCDSL390J50	.....	
	R505,R506	RD1/8PM472J	.....	

HEAD PHONE assembly

The HEAD PHONE assembly (HE type) is the same as the HEAD PHONE assembly (HEZ type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		HEZ type	HE type	
	C951,C952	CKCYB392K50	.....	

6. SPECIFICASIONS

[A-757]

Continuous power output (both channels driven at 20 Hz to 20 kHz) **
- T.H.D. 0.003%, 8 Ω ..... 95W + 95W*
- T.H.D. 0.005%, 4 Ω ..... 140W + 140W*

DIN continuous power output (both channels driven)
- 1 kHz, T.H.D. 1.0%, 8 Ω ..... 100W + 100W
- 1 kHz, T.H.D. 1.0%, 4 Ω ..... 150W + 150W

Power bandwidth
- 0.05%, 8 Ω ..... 5 Hz – 70 kHz*

Damping factor
- (1 kHz/20 Hz to 20 kHz), 8 Ω 200/70

Dynamic power output (on EIA dynamic test signal)
- 4 Ω /2 Ω 200W/300W

Total harmonic distortion **
- 20 Hz to 20 kHz, 95W, 8 Ω 0.003%*
- 20 Hz to 20 kHz, 140W, 4 Ω 0.005%*

Inter-modulation distortion (at rated output) 0.003%*

Input sensitivity/impedance
- PHONO (MM) ..... 2.5 mV/50 k Ω
- PHONO (MC) ..... 0.2 mV/100 Ω
- CD, TUNER, LINE, TAPE ..... 150 mV/50 k Ω

PHONO overload level
- 1 kHz, T.H.D. 0.008% (MM/MC) ..... 200 mV/19 mV

Output level/impedance
- TAPE REC, ADAPTOR OUTPUT ..... 150 mV/2.2 k Ω

Frequency response
- PHONO (MM), 20 Hz to 20 kHz ..... ± 0.2 dB
- PHONO (MC), 20 Hz to 20 kHz ..... ± 0.3 dB
- CD, TUNER, LINE, TAPE (1 Hz to 150 kHz) ..... $^{+0}_{-3}$ dB*

Tone control (volume control set at –40 dB position)
- BASS ..... ± 8 dB (100 Hz)
- TREBLE ..... ± 8 dB (10 kHz)

MUTING ..... – ∞

Loudness contour (volume control set at –40 dB position)
..... +5 dB (100 Hz)/+3 dB (10 kHz)

Filter (SUBSONIC) ..... 17 Hz (12 dB/oct.)

Signal-to-Noise ratio (IHF short circuit, A network)
- PHONO (MM, 5 mV input/MC, 0.5 mV input) ... 95 dB/77 dB*
- CD, TUNER, LINE, TAPE ..... 110 dB*

Signal-to-Noise ratio (DIN, continuous power/50 mW)
- PHONO (MM) ..... 74 dB/65 dB*
- CD, TUNER, LINE, TAPE ..... 92 dB/68 dB*

Power Supply/Miscellaneous

Power requirements ..... a.c. 220 Volts ~, 50/60 Hz
Power consumption 820W
Dimensions ..... 420 (W) × 435 (D) × 162 (H) mm
Weight (without package) ..... 19.5 kg

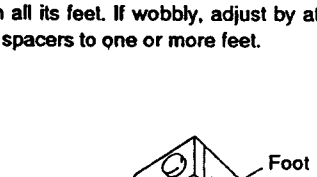
Accessories

Operating instructions 1
Cushion spacer set 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

* Measured with the DIRECT switch set to ON.
** Measured by Audio Spectrum Analyzer.

Be sure to place the unit on a level surface so that it stands firmly on all its feet. If wobbly, adjust by attaching the supplied cushion spacers to one or more feet.



7. PANEL FACILITIES

The illustration shows model A-757.
Model A-656 is not equipped ⑦ and ⑬.

L'illustration montre le modèle A-757.
Le modèle A-656 n'est pas équipé des éléments ⑦ et ⑬.

Die Abbilidung zeigt Modell A-757.
Modell A-656 ist nicht mit Bedienelementen ⑦ und ⑬ ausgestattet.

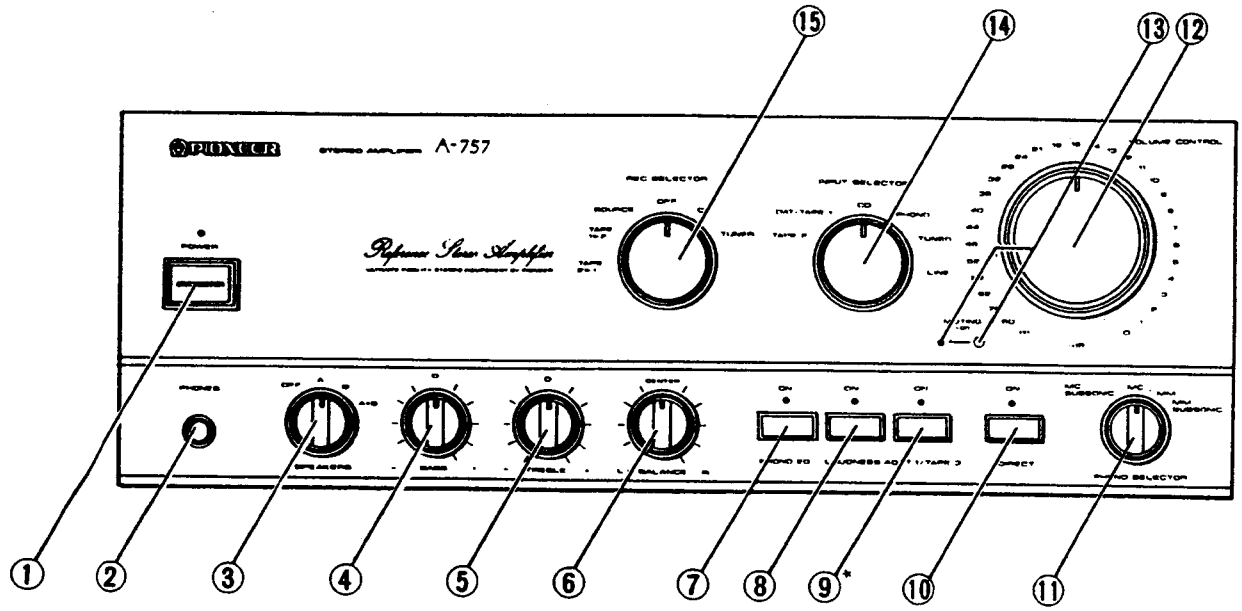
Il modello nell'illustrazione é l' A-757.
Il modello A-656 non possiede i No. ⑦ e ⑬.

De afbeelding toont model A-757.
Model A-656 is niet uitgerust met de bedieningsorganen ⑦ en ⑬.

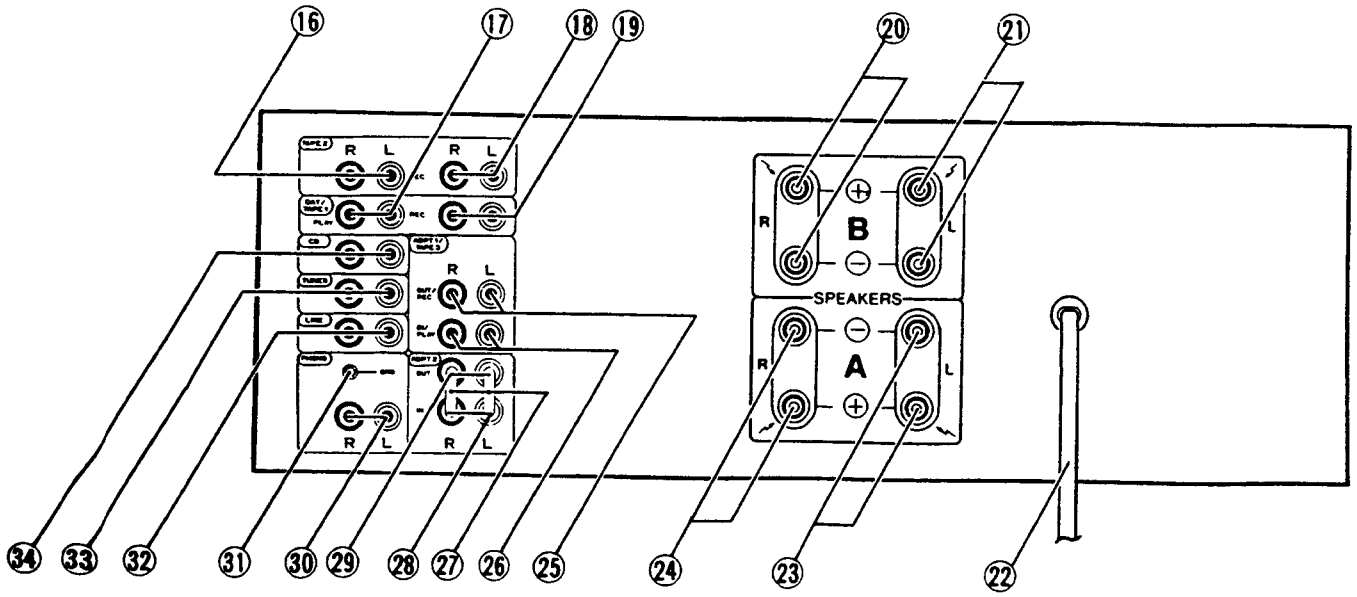
På bildeln visas modell A-757.
Modell A-656 saknar ⑦ och ⑬.

Il modello nell'illustrazione è l' A-757.
Il modello A-656 non possiede i No. ⑦ e ⑬.

Esta ilustração mostra o modelo A-757.
O modelo A-656 não possui os recursos ⑦ e ⑬.



* A-656...ADPT/TAPE 3
A-757...ADPT 1/TAPE 3



See page 2 for Panel Facilities.

[FRONT PANEL]

① POWER switch/indicator

Press to turn power to the unit ON and OFF.
When the power is ON, indicator lights.

② PHONES jack

When using headphones, insert the plug into this jack.

③ SPEAKERS selector switch

Use this switch to listen to the speaker systems connected to the SPEAKERS terminals.

OFF:

Released position: No sound is heard from the speaker system.
Set to this position when listening with headphones.

A:

For reproduction of sound with the speaker systems connected to the SPEAKERS A terminals.

B:

For reproduction of sound with the speaker systems connected to the SPEAKERS B terminals.

A + B:

For reproduction of sound with the speaker systems connected to SPEAKERS A and B terminals.

④ BASS tone control

Use to adjust the low-frequency tone at low volume level. The center position is the flat (normal) position. When turned to the right, low-frequency tones are emphasized; when turned to the left, low-frequency tones are de-emphasized.

NOTE:
This function does not operate when the DIRECT switch is in the ON position.

⑤ TREBLE tone control

Use to adjust the high-frequency tone at low volume level.
The center position is the flat (normal) position. When turned to the right, high-frequency tones are emphasized; when turned to the left, high-frequency tones are de-emphasized.

NOTE:
This function does not operate when the DIRECT switch is in the ON position.

⑥ BALANCE control

Should normally be left in the center position. Adjust balance if the sound is louder from one of the speakers. If the right side is louder, turn toward the LEFT position and if the left side is louder, turn toward the RIGHT position.

NOTE:
This function does not operate when the DIRECT switch is in the ON position.

⑦ PHONO EQ switch/indicator (A-757 only)

When not using a phono input, turn the phono equalizer power circuit off in order to prevent it from collecting noise during playback of other sources.

ON:

The indicator lights: Always set to this position when using a phono input. Immediately after turning ON, audio signal will be muted for several seconds until circuit operation becomes stable.

OFF:

The indicator goes off: Set to this position when not using a phono input.

⑧ LOUDNESS switch/indicator

Use when listening at low volume levels.

ON:

The indicator lights: Boosts low and high frequencies to give added punch to playback even at low-volume.

OFF:

The indicator goes off: Should normally be left in this position.

NOTE:
This switch does not operate when the DIRECT switch is in the ON position.

⑨ ADPT 1/TAPE 3 switch/indicator (ADPT/TAPE 3 switch in the A-656)

Use this switch to listen to tape playback, or to listen to the sounds being recorded during tape recording.

ON:

The indicator lights: Press when listening to the playback sound of the tape deck or the adaptor connected to the ADPT 1/TAPE 3 IN/PLAY terminals, or to monitor the sound being recorded on the tape deck connected to the ADPT 1/TAPE 3 OUT/REC terminals.

OFF:

The indicator goes off: Normally leave the switch in this position.

NOTE:
When the DIRECT switch is set to ON, this function does not operate and no signal is output at the ADPT 1/TAPE 3 OUT/REC terminals.

⑩ DIRECT switch/indicator

Use this switch when you do not wish to pass the output from input terminal equipment through the various frequency adjusting circuits and adaptor terminals (ADPT 1/TAPE 3, ADPT 2, BASS, TREBLE, BALANCE, LOUDNESS).

ON:

When the switch is in this position, the indicator lights and the signals input from the input terminals are reproduced without passing through the various frequency-adjusting circuits. This results in flat, pure sound which is a more faithful reproduction of the input source.

OFF:

When the switch is in this position the indicator goes out and the signal passes through the various frequency adjusting circuits.

⑪ PHONO SELECTOR switch

Set in accordance with the type of cartridge used in you turntable.

MM:

Set to this position when using a moving magnet cartridge, or a MC (moving coil) cartridge with high output of 1 mV or more.

MC:

Set to this position when using a moving coil cartridge.

MM SUBSONIC/MC SUBSONIC:

Subsonic filter for moving coil or moving magnet cartridges to cut ultralow frequency noise less than 17 Hz generated when playing a warped record.

When using a high-output moving coil cartridge, set this switch to MM or MM SUBSONIC.

⑫ VOLUME CONTROL

Use to adjust volume level.

NOTE:
This unit is equipped with a circuit that attenuates the effect of tone and loudness controls at volume is turned up.

⑬ MUTING switch/Indicator (A-757 only)

Use to temporarily cut sound volume.

ON:

The indicator lights. The sound volume will be cut off.

OFF:

The indicator goes off. The sound will return to its previous volume.

⑭ INPUT SELECTOR switch

Use to select playback source.

LINE:

Set to this position when listening to the programs from a component connected to the LINE terminals.

TUNER:

Set to this position when listening to AM or FM broadcasts with a tuner.

PHONO:

Set to this position when listening to record playback on a turntable.

CD:

Set to this position when listening to a compact disc playback with a CD player.

DAT/TAPE 1:

For playback with a tape deck or digital audio tape deck connected to the DAT/TAPE 1 terminals.

TAPE 2:

For playback with a tape deck connected to the TAPE 2 terminals.

⑮ REC SELECTOR switch

Switch to select recording signal. When set at other than SOURCE or OFF position, signals can be recorded during playback of the equipment selected by INPUT SELECTOR switch.

TUNER:

To record from a TUNER.

CD:

To record from a CD player.

OFF:

In this position nothing from the REC terminals of DAT/TAPE 1 and TAPE 2 will be output. Select it when not recording; output to tape decks will be disconnected, improving sound quality.

SOURCE:

To record the equipment selected by INPUT SELECTOR switch.

TAPE:

1 ▶ 2

To record (copy) from the tape deck of DAT/TAPE 1 terminals, over to the tape deck of TAPE 2 terminals.

2 ▶ 1

To record (copy) from the tape deck of TAPE 2 terminals, over to the tape deck of DAT/TAPE 1 terminals.

NOTE:
The REC SELECTOR switch has no effect on the recording out put of the ADPT 1/TAPE 3 terminals.

[REAR PANEL]

⑯ TAPE 2 PLAY terminals.
⑰ DAT/TAPE 1 PLAY terminals.
⑱ TAPE 2 REC terminals.
⑲ DAT/TAPE 1 REC terminals.
⑳ SPEAKERS B terminals (right channel).
㉑ SPEAKERS B terminals (left channel).
㉒ Power cord.

Connect this cord to an AC wall socket, or the AC outlet of an audio timer.

㉓ SPEAKERS A terminals (left channel).
㉔ SPEAKERS A terminals (right channel).
㉕ ADPT 1/TAPE 3 OUT/REC terminals.
ADPT/TAPE 3 OUT/REC terminals. (A-656 only).
㉖ ADPT 1/TAPE 3 IN/PLAY terminals.
ADPT/TAPE 3 IN/PLAY terminals. (A-656 only).
㉗ Shorting bars. (A-757 only).
㉘ ADPT 2 IN terminals. (A-757 only).
㉙ ADPT 2 OUT terminals. (A-757 only).
㉚ PHONO terminals.
㉛ Turntable ground terminal (GND).
㉜ LINE terminals.
㉝ TUNER terminals.
㉞ CD terminals.